

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION
RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures Under Control

Facility Name: Allnex USA Inc. Wallingford (Formerly Cytec Industries Inc.)
Facility Address: 528 South Cherry Street, Wallingford, CT 06492
Facility RCRA ID #: CTD001173467

1. Has **all** available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?

- If yes - check here and continue with #2 below.
Completion of this form drew upon information collected during prior investigations, the Phase I ESA, Priority AOC Investigations, and ongoing Phase II Site Investigations that are being conducted under a RCRA Corrective Action Program.
 If no - re-evaluate existing data, or
 If data are not available skip to #6 and enter "IN" (more information needed) status code.

[Acronyms used in responses on this form are described at the end of the form.]

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

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2. Are groundwater, soil, surface water, sediments, or air **media** known or reasonably suspected to be “contaminated”¹ above appropriately protective risk-based “levels” (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)

	<u>Ye</u> <u>s</u>	<u>No</u>	<u>?</u>	<u>Rationale / Key Contaminants</u>
Groundwater X				Inorganics and organics
Air (indoors) ²		X		No significant sources to indoor air based on soil vapor data
Soil (surface, e.g., <2 ft)	X			Organics
Surface Water	X			Inorganics and organics
Sediment X				Inorganics and organics
Soil (subsurface e.g., >2 ft)	X			Inorganics and organics
Air (outdoors)		X		No significant sources to outdoor air based on soil vapor data

- _____ If no (for all media) - skip to #6, and enter “YE,” status code after providing or citing appropriate “levels,” and referencing sufficient supporting documentation demonstrating that these “levels” are not exceeded.
- X** If yes (for any media) - continue after identifying key contaminants in each “contaminated” medium, citing appropriate “levels” (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.
- _____ If unknown (for any media) - skip to #6 and enter “IN” status code.

Rationale and Reference(s):

Information gathered during prior investigations, and other ongoing investigations were used in the development of this form. Analytical data from investigation activities to date were screened against appropriate risk and health-based numeric criteria presented in Connecticut's Remediation Standard Regulations (RSRs), and Connecticut's Water Quality Standards and Criteria (WQS) (Surface Water Only), to identify contaminants of concern that include volatile organic (VOC), semivolatile organic (SVOC), pesticide and polychlorinated biphenyl (Pest/PCB), and inorganic (inorg.) constituents.

The following attachments are provided for reference to support this submittal:

Attachment 1-Figures

- Figure 1 – Site Location Map**
Figure 2- Site Layout and AOC Locations (revised)

Attachment 2-Data Tables

- Table 1 –AOCs Investigated or Remediated to Date (key for Figure 2)**
Tables 2A\ thru 2E - Groundwater Analytical Results Summary

Table 2A- AOC 415 - Original Capped Landfill (Southern Landfill)

Table 2B - AOC 420 - Powder Dump

Table 2C - AOC 805 - Building 10 Tank Farm

Table 2D - AOC 820 - Building 5B Tank Farm

Table 2E - AOC 830 - Methylformcel® Release

- Table 3 - Summary of Soil Vapor Analytical Results**
Table 4A – Soil Data Summary – 1997-2007
Table 4B - Soil Data Summary – 2008-2010
Table 5- Summary of Surface Water Analytical Results
Table 6 - Summary of Sediment Analytical Results (revised)

Attachment 3 – References

Addendum 1 – Supplemental Data Tables for Data Collected 2010-2017 at AOCs 120, 230, and 420

- Table 1 - AOC 420 - Powder Dump (2016 Groundwater Results)**
Table 2 - Summary of Sediment Analytical Results – AOC 120
Table 3 - Summary of Sediment Analytical Results – AOC 230
Table 4 - Summary of Surface Soil Analytical Results – AOC 120
Table 5 - Summary of Surface Soil Analytical Results – AOC 230
Table 6 - Summary of Subsurface Soil Analytical Results – AOC 120
Table 7 - Summary of Surface Water Analytical Results – AOC 120
Table 8 - Summary of Surface Water Analytical Results – AOC 230

Chemicals of concern are identified as those exceeding promulgated standards or screening criterion (e.g., guidance values or ecological screening benchmarks) for each media based on the most recent analytical results available for the Areas of Concern (AOCs) investigated as follows:

- Groundwater:** Inorg. - (Arsenic, Zinc),
SVOC - (Extractable Total Petroleum Hydrocarbons [ETPH]),
VOC - (Benzene, Ethyl benzene, Styrene, Toluene, Xylenes),
- Air (indoors):** TO-15 VOC analysis of soil vapors indicated several volatiles present but at levels not expected to pose a threat to indoor air,
- Soil (surface):** PCBS, SVOCs - (Extractable Total Petroleum Hydrocarbons),
- Surface Water:** Inorganics (cadmium) and organics (PCBs)
- Sediment:** PCBS and inorganics
- Soil (subsurface):** Inorg. - (Chromium), PCBs – (Aroclor 1248),
- Air (outdoor):** TO-15 VOC analysis of soil vapors indicated several volatiles present but at levels not expected to pose a threat to indoor or outdoor air.

Footnotes:

¹ “Contamination” and “contaminated” describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based “levels” (for the media, that identify risks within the acceptable risk range).

² Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above [and adjacent to] groundwater with volatile contaminants) does not present unacceptable risks.

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3. Are there **complete pathways** between “contamination” and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

“Contaminated” Media	Potential Human Receptors (Under Current Conditions)						
	Off-Site Resident s	Maint. Workers	Day- Care	Construction	Trespassers	Recreation	Food ³
Groundwater	no	no	no	YES	no	no	no
Air (indoors)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			X			
Soil (surface, e.g., <2 ft)	no	YES	no	YES	no	no	no
Surface Water	no	YES	no	YES	YES	YES	no
Sediment	no	YES	no	YES	YES	YES	no
Soil (subsurface e.g., >2 ft)	no	no	no	YES	no	no	no
Air (outdoors)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			X			

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors' spaces for Media which are not “contaminated”) as identified in #2 above. **Indoor and outdoor air not contaminated.**
2. enter “yes” or “no” for potential “completeness” under each “Contaminated” Media -- Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential “Contaminated” Media - Human Receptor combinations (Pathways) do not have check spaces (“ ”). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

- If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter “YE” status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).
- X If yes (pathways are complete for any “Contaminated” Media - Human Receptor combination) - continue after providing supporting explanation.
- If unknown (for any “Contaminated” Media - Human Receptor combination) - skip to #6 and enter “IN” status code

Rationale and Reference(s):

- The Allnex facility is expected to remain an active manufacturing facility. Security fencing prevents access to all AOCs of concern except AOC 420 (Powder Dump).
- A permanent closure plan was prepared and implemented for the powder dump in 1983 at the request of the Connecticut DEP (Order No. 3077). Currently, the soil cover cap remains and prevents direct contact exposure to trespassers and site workers.

- Current site use involves potential contact with various media indicated above by actual and/or hypothetical (e.g., trespassers) receptors.

GROUNDWATER

- There are two groundwater bearing units beneath the facility; an upper shallow water table aquifer and a lower, confined aquifer (ABB-ES, 1995). Groundwater can be expected to be a complete exposure pathway for construction workers as contaminant levels measured in the upper aquifer are above Connecticut RSR criteria.
- Based on available information obtained to date, including prior investigations, groundwater from the upper aquifer discharges to local on-site streams and the Quinnipiac River along the western portion of the site. Along the eastern portion of the site, groundwater from the upper unit discharges off-site into Wharton Brook.

SOIL VAPOR (INDOOR AND OUTDOOR AIR)

- The soil vapor pathway to indoor air is not expected to be a complete exposure pathway as the depth to groundwater where VOCs are detected is greater than 20 feet in most areas, which limits the potential for migration into occupied buildings. There are no exposure pathways to outdoor air. Additional information related to the soil vapor indoor air pathway is provided in Section 4.

SOIL (SURFACE AND SUBSURFACE)

- Surface soil (<2 feet bgs) and subsurface soil (>2 feet bgs) can be expected to be a potentially complete exposure pathway for maintenance workers and construction workers at the facility.

SURFACE WATER AND SEDIMENT

- Surface water is expected to represent a potentially complete exposure pathway for maintenance workers and trespassers. Contact with surface water on-site in the vicinity of AOC 120 and AOC 230 may be possible for trespassers and maintenance workers and therefore represents a potential complete exposure pathway.
- Uses of Wharton Brook and the Quinnipiac River include fish and wildlife habitat; agricultural and industrial supply and other legitimate uses including navigation. The use of these waterways and adjacent areas by recreators in the vicinity of the facility is assumed. No significant pathway for water consumption is assumed under current conditions as these water bodies are impaired in the area of the facility (USEPA, 2011).
- Sediments also represent potential complete exposure pathways. In the case of the construction worker, exposure to sediment along streams and drainage ditches on site is considered a potential complete exposure pathway.

³ Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

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4 Can the exposures from any of the complete pathways identified in #3 be reasonably expected to be “significant”⁴ (i.e., potentially “unacceptable” because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable “levels” (used to identify the “contamination”); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable “levels”) could result in greater than acceptable risks)?

_____ If no (exposures can not be reasonably expected to be significant (i.e., potentially “unacceptable”) for any complete exposure pathway) - skip to #6 and enter “YE” status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to “contamination” (identified in #3) are not expected to be “significant.”

X _____ If yes (exposures could be reasonably expected to be “significant” (i.e., potentially “unacceptable”) for any complete exposure pathway) - continue after providing a description (of each potentially “unacceptable” exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to “contamination” (identified in #3) are not expected to be “significant.”

_____ If unknown (for any complete pathway) - skip to #6 and enter “IN” status code

Rationale and Reference(s):

GROUNDWATER

- **Tables 2A through 2E summarize groundwater sample data collected from 5 areas at the facility. These represent areas where groundwater contamination is present and where monitoring data are provided to assess potential exposure and migration. These include:**
 - The Southern Landfill (AOCs 410, 415, and 450),
 - Building 10 Tank Farm (AOC 805) and Building 2 # 6 Fuel Release (AOC 825),
 - Building 5B Tank Farm (AOCs 820 and 895),
 - Methylformicel Release (AOC 830) and Former Process Recycle Flow-Through Tanks (AOC 815), and
 - The Powder Dump (AOC 420)
- **Monitoring data from the above-listed areas indicate the areal extent of the plumes are stable to decreasing over time. (ABB-ES, 1995, MACTEC, 2009a, MACTEC, 2010a, MACTEC, 2011)**
- **The most recent data for the Southern Landfill AOCs and Building 10 and Building 2 AOCs is provided in the 2016 Annual Monitoring Report (Amec Foster Wheeler, 2017)**
- **Monitoring data support the interpretation of no increasing concentrations.**
- **Operational practices at the facility described in Spill Release Contingency Plans are designed to prevent the uncontrolled release of contaminants to groundwater.**
- **There are ongoing corrective measures at the Southern Landfill (landfill cap maintenance, leachate/groundwater interceptor, and groundwater monitoring) and the Building 10 Tank Farm (active groundwater pump and treat system). Monitoring data indicates these systems have acted to reduce and stabilize the groundwater constituent plumes.**
- **In addition, groundwater samples were collected in 2016 to evaluate levels of ammonia and bis(2-Ethylhexyl)phthalate in the three Powder Dump wells (MWPD-1, MWPD-4 and MWPD-5). These constituents were detected in surface water or sediment in Unnamed Stream, but were not evaluated in groundwater prior to 2016. For the 2016 sampling, these constituents were either not detected or below promulgated or proposed site-specific SWPC (Addendum 1 – Table 1)**
- **The depth to groundwater where constituent plumes are located ranges from approximately 15**

to 20 feet below ground surface, limiting exposure for incidental contact and maintenance activities.

SOIL VAPOR (INDOOR AND OUTDOOR AIR)

- Analytical results summarized in Table 3 from soil vapor samples collected in 2009 and 2010 show no results exceeding Connecticut Industrial/Commercial or Residential Volatilization Criteria. These samples were collected beneath and adjacent to an occupied manufacturing building (Building 10) near a source (AOC 805) having the highest VOC concentrations in soil and groundwater at the facility. Therefore, these results are believed to represent the worst-case scenario for soil vapor migration to indoor and outdoor air at the property.

SOIL (SURFACE AND SUBSURFACE)

- Prior to the beginning of RCRA Corrective Action investigations in 2008, a number of soil sampling investigations were conducted at the Allnex facility in support of tank removal and closures, and voluntary soil remediation efforts (Harding Lawson Associates, 1998[A-E], Harding ESE, 2001a, Harding ESE, 2001b, Harding ESE, 2002). Table 4A summarizes data for soil samples collected from 1997 to 2007 related to these investigations. Concentrations of select VOCs and SVOCs were reported in subsurface soil above applicable human health criteria (Connecticut RSRs) in some areas.
- Table 4B summarizes data from soil samples collected from 2008 until 2010 in support of RCRA Corrective Action investigations. Of the samples collected, soils at two AOCs show concentrations of select organic or inorganic contaminants reported above Connecticut direct exposure criterion.
- The facility uses a safety work permit procedure that ensures that maintenance and construction workers are properly trained and that proper Personnel Protective Equipment (PPE) is used if required to provide added protection to on-site workers. These measures are in place to prevent direct contact with contaminated media such as soil.

SURFACE WATER

- Surface water data is summarized in Table 5 and Addendum Tables 7 and 8.

SEDIMENT

- Analytical results for sediment samples collected from AOC 120 and AOC 230 are shown on Table 6, and Addendum Tables 2 and 3, respectively.
- Access to sediments at AOC 120 and 230 to trespassers is presumed to be very limited, due to the presence of security fencing, ropes and signage. In addition, Allnex security personnel monitor property access along the Quinnipiac River.
- PCBs have been detected at an elevated concentration along a former wastewater conveyance ditch (AOC 120) and adjacent flood plain area. Since the initial discovery in 2009 (MACTEC, 2010b), Allnex has removed sediments with higher concentrations in one area and secured an area of the flood plain to limit access to surface soils containing PCBs.
- The facility uses a safety work permit procedure that ensures that maintenance and construction workers are properly trained and that proper Personnel Protective Equipment (PPE) is used if required to provide added protection to on-site workers. These measures are in place to prevent direct contact with contaminated media such as sediment.

⁴ If there is any question on whether the identified exposures are “significant” (i.e., potentially “unacceptable”) consult a human health Risk Assessment specialist with appropriate education, training and experience.

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- 5 Can the “significant” exposures (identified in #4) be shown to be within acceptable limits?

- If yes (all “significant” exposures have been shown to be within acceptable limits) - continue and enter “YE” after summarizing and referencing documentation justifying why all “significant” exposures to “contamination” are within acceptable limits (e.g., a site-specific Human Health Risk Assessment).
- If no (there are current exposures that can be reasonably expected to be “unacceptable”) continue and enter “NO” status code after providing a description of each potentially “unacceptable” exposure.
- If unknown (for any potentially “unacceptable” exposure) - continue and enter “IN” status code

Rationale and Reference(s):

- As a manufacturer of sensitive and proprietary products, the facility has security personnel and measures that include fencing and a guard station to protect the general public from potential exposure to on-site sources of contamination.
- While the potential for complete exposure pathways may exist for maintenance workers and construction workers at the facility, Allnex uses a safety work permit procedure that ensures that maintenance and construction workers are properly trained and that proper Personnel Protective Equipment (PPE) is used if required to provide added protection to on-site workers. These measures are in place to prevent direct contact with contaminated soil, sediment, and groundwater. Therefore, these potential exposure pathways are considered insignificant.

GROUNDWATER

- Currently, there is limited use of groundwater from the lower confined unit for process related operations at Allnex. Due to the presence of a thick aquitard below the upper water-bearing unit at the site, there are no constituent plumes in the lower unit.
- There are no current potable uses of shallow groundwater in the vicinity of the site and there are no planned uses of groundwater from the upper aquifer at the facility. The groundwater classification mapped for the entire Allnex facility is “GB” which is categorized as an area with groundwater presumed not suitable for human consumption without treatment.
- No potable uses of groundwater have been identified within 0.5 miles of the Allnex Site, and no public water supply wells are located within at least 1.0 mile of the Allnex facility (MACTEC, 2009)
- Allnex owns, and therefore controls all of the land from the Quinnipiac River to any potential sources of contamination to groundwater at the Allnex facility. Therefore, no potential for exposure to contaminated groundwater between the facility and the discharge area to the west, the Quinnipiac River, is expected.
- There is no arable land downgradient of potential contaminant sources that would be suitable for growing crops or livestock that may directly or indirectly come in contact with contaminated groundwater from the Allnex facility.

INDOOR AND OUTDOOR AIR

- Based on soil vapor testing conducted in the area of the site exhibiting the highest VOC concentrations in soil and groundwater, no significant exposure pathways for VOCs in indoor and outdoor air exist.

SOIL (SURFACE AND SUBSURFACE)

- There are no day-care facilities located near any of the AOCs. Cultivated or natural food for human consumption is not grown anywhere on the facility. Since the facility will continue to be used for industrial purposes, these activities (day-care and food production) are not potentially complete exposure pathways and have been eliminated from consideration.
- An Environmental Land Use Restriction (ELUR) is in place for the Allnex facility for an area beneath a portion of Building 10 (AOC 1310). This ELUR restricts disturbance in this area, eliminating potential exposure to PCBs in inaccessible soils that were left in place during remediation. (ABB-ES, 1997)
- A complete exposure pathway to surface and subsurface soil (>2 feet bgs) is possible for the construction worker, but is unlikely for the following receptors:

Off-site residents

- Soil contamination is limited to defined areas (selected AOCs) at the facility. Based upon the use of site security, fencing, ropes and signage, and excavation permitting process, visitors to the facility will not come into contact with surface or subsurface soils.

Recreators, trespassers

- As described above for off-site residents, potential trespassers would not be reasonably expected to have exposure to surface or subsurface soil.

SURFACE WATER AND SEDIMENT

- Consumption of vegetables, fruits, crops, meat and dairy products is not considered a potential complete exposure pathway as these are not grown on or in the immediate vicinity of the facility.
- The Quinnipiac River and Wharton Brook are not assumed for potable water use. Both are identified as impaired water bodies near the facility by the CTDEEP (CTDEEP, 2017)

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6. Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (and attach appropriate supporting documentation as well as a map of the facility):

YE - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the Allnex Wallingford facility, **EPA ID: CTD001173467**, located at **528 South Cherry Street, Wallingford, CT** under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

NO - "Current Human Exposures" are NOT "Under Control."

IN - More information is needed to make a determination.

Completed by


Nelson Breton
Associate Hydrogeologist – Amec Foster Wheeler

Date 9/28/2017

Supervisor


Jacques Gilbert
(print) Jacques Gilbert
(title) SEA
CT DEEP

Date 9/29/17


9/29/17
Chs, D1 EPA RCRA CA

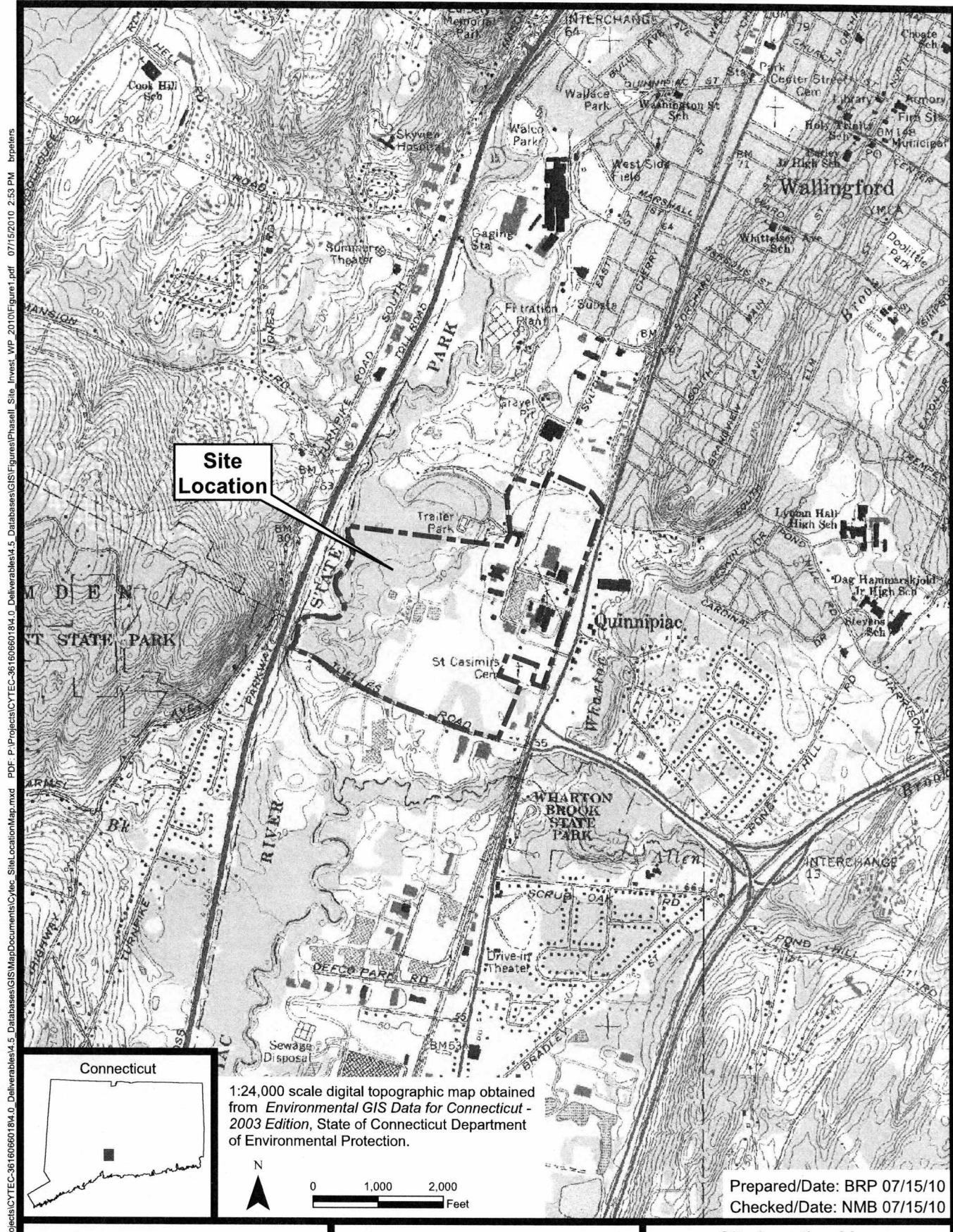
Locations where References may be found:

Amec Foster Wheeler Environment & Infrastructure– 511 Congress St. Suite 200, Portland, ME 04101

Allnex USA Inc. 528 South Cherry Street, Wallingford, CT 06492

FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE SCREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

ATTACHMENT 1
FIGURES

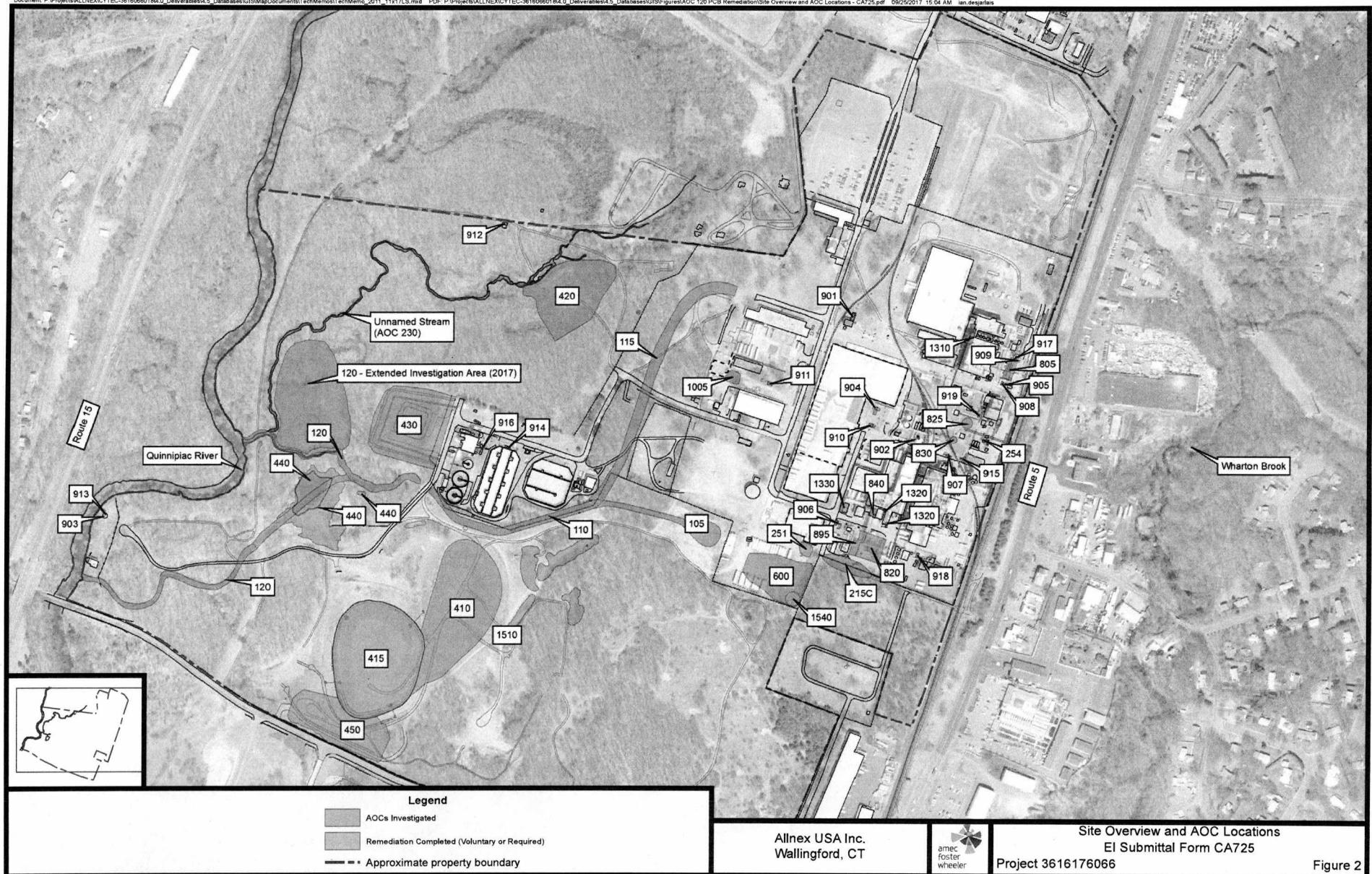


Cytec Industries, Inc.
Wallingford, CT



Site Location Map

Project 3616-08-6024 Figure 1



ATTACHMENT 2
TABLES

TABLE 1
AREAS OF CONCERN
CYTEC WALLINGFORD

Area of Concern # - Description
105 - Original Wastewater Ditch (Building 9 Lot to WWTP)
110 - Wastewater Temporary Conveyance
115 - Original Wastewater Ditch (beginning west of Building 34)
120 - Southern Effluent Discharge Ditch
215 - (A,B,C) - VCP Industrial Sewer Lines
230 - Storm Water System (and Unnamed Stream)
251 - Building 9 Septic System
410 - NE Capped Landfill Area - includes Former Fire Training Area and Off-shift dump area, east of the landfill
415 - Original Capped Landfill (Solid Waste disposal area)
420 - Powder Dump
430 - Ash Lagoon/Former Leachfield (Fill Area 2)
440 - Fill Area 3
450 - Solid Waste Disposal Area - Southern Extension
600 - Nine-Lot Waste Accumulation Area
805 - Building 10 Tank Farm
820 - Building 5B Tank Farm
825 - No. 6 Fuel Oil Release near Building 2
830 - Methylformcel® Release
840 - Empol/Beetle Tanks south of Building 5
901 - (Substation A) through 910 (Substation J) 912 (Substation L) through 921 (Substation U).
1005 - Former Building 21 (Pilot Plant) Septic System
1320 - Hot Oil System 120 at Building 5B
1330 - Hot Oil System 120 at Building 5B

Note: List provided as key to Figure 2 for EI CA 725 submittal - September 2011.

List of AOCs reflects those areas where investigation and/or remediation has been performed through 2010

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 415 - Original Capped Landfill (Southern Landfill plus AOCs 410 and 450)
2008-2011

Chem Class	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	
Parameter	Arsenic	Arsenic	Barium	Barium	Iron	Iron	Sodium	Sodium	Zinc	Zinc	1,1,2,2-Tetrachloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
Fraction	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Total	Total	Total	Total	Total	
CT-GWVOLIND	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.1	50	NC	NC	50	50	
CT-SWPROT	0.004	0.004	NC	NC	NC	NC	NC	NC	0.123	0.123	0.11	NC	NC	NC	26	26	
MW-NE3	10/28/09	FS		0.0025 U		0.16		2.74		10.3	0.0341	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
MW-NE3	10/21/10	FS		0.0025 U		0.18		1.9		12	0.047	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/29/08	FS		0.00053 J		0.21		0.35		7.8	0.0073 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/29/09	FS		0.0025 U		0.19		0.125 U		7.9	0.025 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/21/10	FS		0.0025 U		0.34		0.45		8.7	0.025 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 415 - Original Capped Landfill (Southern Landfill plus AOCs 410 and 450)
2008-2011

Chem Class	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs
Parameter	2-Propanol	4-iso-Propyltoluene	Acetone	Benzene	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichlorethane	Dimethoxy methane	Ethyl benzene	Formaldehyde	Hexachloro butadiene
Fraction	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
CT-GWVOLIND	NC	NC	50	0.53	NC	0.04	6.15	NC	0.71	NC	NC	NC	50	NC	NC
CT-SWPROT	NC	NC	NC	0.71	NC	0.132	420	NC	14.1	NC	NC	580	10 ^b	NC	NC
MW-NE3	10/28/09	FS	0.001 U	0.0005 U	0.002 U	0.0005 U	0.001 U	0.0005 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
MW-NE3	10/21/10	FS	0.001 U	0.0005 U	0.002 U	0.0005 U	0.001 U	0.0005 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/29/08	FS	0.018	0.0005 U	0.0038 B *	0.0005 U	0.001 U	0.0005 U	0.001 U	0.0005 U	0.0005 U	0.0006	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/29/09	FS	0.001 U	0.0005 U	0.002 U	0.0005 U	0.001 U	0.0005 U	0.001 U	0.0005 U	0.0005 U	0.00058	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/21/10	FS	0.001 U	0.0005 U	0.002 U	0.0005 U	0.001 U	0.0005 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 415 - Original Capped Landfill (Southern Landfill plus AOCs 410 and 450)
2008-2011

Chem Class	Parameter	VOCs		VOCs		VOCs		VOCs		VOCs		VOCs		VOCs			
		Isobutyl alcohol		Isopropyl benzene		Methyl methacrylate		Methyl Tertbutyl Ether		Methylene chloride		n-Butylbenzene		Naphthalene		Propylbenzene	
		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	sec-Butylbenzene	Styrene
	Fraction	CT-GWVOLUND	NC	NC	NC	50	50	NC	NC	NC	NC	2.065	3.82	NC	50	NC	0.54
	CT-SWPROT	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	0.088	NC	4000	NC	2.34	
Location	Sample Date	Qc Code															
MW-10S	11/04/08	FS															
MW-10S	04/29/09	FS															
MW-10S	10/30/09	FS															
MW-10S	04/06/10	FS															
MW-10S	10/26/10	FD															
MW-10S	10/26/10	FS															
MW-10S	03/31/11	FS															
MW-12S	10/30/08	FS															
MW-12S	04/29/09	FS															
MW-12S	10/28/09	FS															
MW-12S	04/07/10	FS															
MW-12S	10/18/10	FS															
MW-12S	04/04/11	FS															
MW-2S	11/04/08	FD															
MW-2S	11/04/08	FS															
MW-2S	04/28/09	FS															
MW-2S	04/28/09	FD															
MW-2S	04/28/09	FS															
MW-2S	10/29/09	FD															
MW-2S	10/29/09	FS															
MW-2S	04/06/10	FD															
MW-2S	04/06/10	FS															
MW-2S	10/25/10	FS															
MW-2S	03/31/11	FD															
MW-2S	03/31/11	FS															
MW-3S	11/04/08	FS															
MW-3S	04/28/09	FS															
MW-3S	10/30/09	FS															
MW-3S	04/07/10	FS															
MW-3S	10/25/10	FS															
MW-3S	03/31/11	FS															
MW-4S	10/28/09	FS															
MW-4S	04/07/10	FS															
MW-4S	10/18/10	FS															
MW-4S	04/04/11	FS															
MW-5S	11/03/08	FS															
MW-5S	04/28/09	FS															
MW-5S	10/29/09	FS															
MW-5S	04/07/10	FS															
MW-5S	10/19/10	FS															
MW-5S	04/01/11	FS															
MW-6S	11/03/08	FS															
MW-6S	04/28/09	FS															
MW-6S	10/29/09	FS															
MW-6S	04/07/10	FS															
MW-6S	10/19/10	FS															
MW-6S	04/01/11	FS															
MW-NE1	10/29/08	FS															
MW-NE1	10/29/09	FS															
MW-NE1	10/19/10	FS															
MW-NE2	10/29/08	FS															
MW-NE2	10/29/09	FS															
MW-NE2	10/21/10	FS															
MW-NE3	10/29/08	FS															

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 415 - Original Capped Landfill (Southern Landfill plus AOCs 410 and 450)
2008-2011

Chem Class	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs
Parameter	Isobutyl alcohol	Isopropyl benzene	Methyl methacrylate	Methyl Tertbutyl Ether	Methylene chloride	n-Butylbenzene	Naphthalene	Propylbenzene	sec-Butylbenzene	Styrene	Tetrachloroethene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	Trichloro ethene
Fraction	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
CT-GWVOLIND	NC	NC	50	50	NC	NC	NC	NC	NC	2.065	3.82	NC	50	NC	0.54
CT-SWPROT	NC	NC	NC	48	NC	NC	NC	NC	NC	0.088	NC	4000	NC	2.34	
MW-NE3	10/28/09	FS		0.0005 U	0.001 U	0.0005 U	0.002 UJ	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.002 U	0.0005 U	0.0005 U	0.0005 U
MW-NE3	10/21/10	FS		0.0005 U	0.001 U	0.0005 U	0.002 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.002 U	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/29/08	FS		0.0005 U	0.001 U	0.0005 U	0.0002 JB	0.0005 U	0.0005 U	0.0005 U	0.00042 J	0.001 U	0.0005 U	0.0005 U	0.00015 J
MW-NE4	10/29/09	FS		0.0005 U	0.001 U	0.0005 U	0.002 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.002 U	0.0005 U	0.0005 U	0.0005 U
MW-NE4	10/21/10	FS		0.0005 U	0.001 U	0.0005 U	0.002 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.002 U	0.0005 U	0.0005 U	0.0005 U

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 415 - Original Capped Landfill (Southern Landfill plus AOCs 410 and 450)
2008-2011

Chem Class	VOCs	VOCs	VOCs	VOCs	Wet Chem
Parameter	Vinyl chloride	Xylene, o	Xylenes (m&p)	Xylenes, Total	Ammonia
Fraction	Total	Total	Total	Total	Total
CT-GWVOLIND	0.002	0.53	0.53	0.53	NC
CT-SWPROT	15.75	50	50	50	NC
Location	Sample Date	Qc Code			
MW-10S	11/04/08	FS	0.0005 U	0.0015	0.001 U
MW-10S	04/29/09	FS	0.0005 U	0.0016	0.001 U
MW-10S	10/30/09	FS	0.0005 U	0.00088	0.001 U
MW-10S	04/06/10	FS	0.0005 U	0.0005 U	0.001 U
MW-10S	10/26/10	FD	0.0005 U	0.0005 U	0.001 U
MW-10S	10/26/10	FS	0.0005 U	0.0005 U	0.001 U
MW-10S	03/31/11	FS	0.0005 U	0.0005 U	0.001 U
MW-12S	10/30/08	FS	0.0005 U	0.0005 U	0.001 U
MW-12S	04/29/09	FS	0.0005 U	0.0005 U	0.001 U
MW-12S	10/28/09	FS	0.0005 U	0.0005 U	0.001 U
MW-12S	04/07/10	FS	0.0005 U	0.0005 U	0.001 U
MW-12S	10/18/10	FS	0.0005 U	0.0005 U	0.001 U
MW-12S	04/04/11	FS	0.0005 U	0.0005 U	0.001 U
MW-25	11/04/08	FD	0.01 U	0.026	0.017 J
MW-25	11/04/08	FS	0.01 U	0.025	0.015 J
MW-25	04/28/09	FD	0.01 U	0.031 J	0.042
MW-25	04/28/09	FS	0.01 U	0.031 J	0.041
MW-25	10/29/09	FD	0.005 U	0.006	0.016
MW-25	10/29/09	FS	0.005 U	0.0059	0.01
MW-25	04/06/10	FD	0.005 U	0.01	0.01 U
MW-25	04/06/10	FS	0.005 U	0.011	0.01 U
MW-25	10/25/10	FS	0.002 U	0.0034	0.0046
MW-25	03/31/11	FD	0.0005 U	0.0049 J	0.013 J
MW-25	03/31/11	FS	0.0005 U	0.0075 J	0.026 J
MW-35	11/04/08	FS	0.0005 U	0.0041	0.0087
MW-35	04/28/09	FS	0.0005 U	0.0005 U	0.001 U
MW-35	10/30/09	FS	0.0005 U	0.00051	0.001 U
MW-35	04/07/10	FS	0.0005 U	0.0005 U	0.001 U
MW-35	10/25/10	FS	0.0005 U	0.0005 U	0.001 U
MW-35	03/29/11	FS	0.0005 U	0.0005 U	0.001 U
MW-45	10/31/08	FS	0.0005 U	0.0005 U	0.001 U
MW-45	04/28/09	FS			
MW-45	10/28/09	FS	0.0005 U	0.0005 U	0.001 U
MW-45	04/07/10	FS			
MW-45	10/18/10	FS	0.0005 U	0.0005 U	0.001 U
MW-45	04/04/11	FS			
MW-55	11/03/08	FS	0.0005 U	0.0005 U	0.001 U
MW-55	04/28/09	FS			
MW-55	10/29/09	FS	0.0005 U	0.0005 U	0.001 U
MW-55	04/07/10	FS			
MW-55	10/19/10	FS	0.0005 U	0.0005 U	0.001 U
MW-55	04/01/11	FS			
MW-65	11/03/08	FS	0.0005 U	0.0005 U	0.001 U
MW-65	04/28/09	FS			
MW-65	10/29/09	FS	0.0005 U	0.0005 U	0.001 U
MW-65	04/07/10	FS			
MW-65	10/19/10	FS	0.0005 U	0.0005 U	0.001 U
MW-65	04/01/11	FS			
MW-NE1	10/29/08	FS	0.00062	0.025	0.12
MW-NE1	10/29/09	FS	0.0005 U	0.0005 U	0.18
MW-NE1	10/19/10	FS	0.0025 U	0.0042	0.34
MW-NE2	10/29/08	FS	0.0005 U	0.0005 U	0.001 U
MW-NE2	10/29/09	FS	0.0005 U	0.0005 U	0.001 U
MW-NE2	10/21/10	FS	0.0005 U	0.0005 U	0.001 U
MW-NE3	10/29/08	FS	0.0005 U	0.0005 U	0.001 U

Notes:

Analytical results from September 2008 thru April 2011.
Results provided in mg/L only for constituents detected in at least one sample
"U" qualifier = non-detect
"J" qualifier = estimated
MG/L = milligrams per liter
10^a = Proposed site-specific criterion
NC = No Criteria
Shading indicates value exceeds lowest criterion
FS = Field Sample; FD = Field Duplicate
CT-GWVOLIND = Volatilization from groundwater - Industrial setting
CT-SWPROT = Surface water protection criteria (SWPC)

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 415 - Original Capped Landfill (Southern Landfill plus AOCs 410 and 450)
2008-2011

Chem Class	VOCs	VOCs	VOCs	VOCs	Wet Chem
Parameter	Vinyl chloride	Xylene, o	Xylenes (m&p)	Xylenes, Total	Ammonia
Fraction	Total	Total	Total	Total	Total
CT-GWVOLIND	0.002	0.53	0.53	0.53	NC
CT-SWPROT	15.75	50	50	50	NC
MW-NE3	10/28/09	FS	0.0005 U	0.0005 U	0.001 U
MW-NE3	10/21/10	FS	0.0005 U	0.0005 U	0.001 U
MW-NE4	10/29/08	FS	0.00012 J	0.0005 U	0.001 U
MW-NE4	10/29/09	FS	0.0005 U	0.0005 U	0.001 U
MW-NE4	10/21/10	FS	0.0005 U	0.0005 U	0.001 U

TABLE 2B
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 420 - Powder Dump
2010-2011

Chem Class	Metals	Metals	Metals	Metals	Metals	Metals	VOCs	VOCs	VOCs
	Arsenic	Barium	Cobalt	Copper	Nickel	Vanadium	Dimethoxymethane	Formaldehyde	Methyl Tertbutyl Ether
	Total	Total	Total	Total	Total	Total	Total	Total	Total
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
CT-SWPROT	0.004	NC	NC	0.048	0.88	NC	NC	10 ^P	NC
Location	Sample Date	Qc Code							
MW-PD1	10/27/10	FD	0.0025 U	0.22 J	0.0033	0.005 U	0.0025 U	0.00028 JN	0.05 U
MW-PD1	10/27/10	FS	0.0025 U	0.22 J	0.0033	0.005 U	0.0025 U	0.00002 JN	0.05 U
MW-PD1	04/06/11	FD	0.0025 U	0.27	0.0034	0.005 U	0.0025 U	0.0025 U	0.05 U
MW-PD1	04/06/11	FS	0.0025 U	0.26	0.0034	0.005 U	0.0025 U	0.0025 U	0.05 U
MW-PD4	10/28/10	FS	0.012	0.13 J	0.018	0.0056	0.0036	0.0041	0.063
MW-PD4	04/05/11	FS	0.0025 U	0.072	0.0036	0.005 U	0.0025 U	0.0025 U	0.05 U
MW-PD5	10/26/10	FS	0.0025 U	0.11	0.0025 U	0.005 U	0.0043	0.0025 U	0.05 U
MW-PD5	04/05/11	FS	0.0025 U	0.1	0.0025 U	0.005 U	0.005	0.0025 U	0.05 U

Notes:

Analytical results from September 2008 thru April 2011

Results provided only for constituents detected in at least one sample

"U" qualifier = non-detect

"J" qualifier = estimated

MG/L = milligrams per liter

10^P = Proposed site-specific criterion

NC = No Criteria

CT-SWPROT - Connecticut Surface Water Protection Criteria for Groundwater

- Shading indicates value exceeds criterion

FS = Field Sample; FD = Field Duplicate

TABLE 2C
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 805 - Building 10 Tank Farm
2009-2011

Chem Class	EPH	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs
	Extractable Petroleum Hydrocarbons, Total	Benzene	Ethyl benzene	Methyl methacrylate	Styrene	Toluene	Xylenes, Total
CT-GWPC	0.5 ^P	0.001	0.7	0.98 ^P	0.1	1	0.53
CT-GWVOLIND	NC	0.53	50	50 ^P	2.065	50	50
CT-SWPROT	NC	0.71	580	10 ^P	NC	4000	NC
Location	Field Sample Date	Qc Code					
AN-14	04/30/09	FD	4.7	0.5 U	9.7	1 U	2.3
AN-14	04/30/09	FS	4.3 J	0.5 U	7.2	1 U	2
AN-14	04/08/10	FD	0.41 J	0.05 U	2.9	0.1 U	0.39
AN-14	04/08/10	FS	0.38 J	0.25 U	2.2	0.5 U	0.51
AN-14	04/05/11	FD	0.31	0.13 U	3.4	0.25 U	0.13 U
AN-14	04/05/11	FS	0.28	0.00068	3.2	0.001 U	0.038
AN-14D	04/30/09	FS	0.1 U	0.00098	0.0067	0.001 U	0.0012
AN-14D	04/09/10	FS	0.1 U	0.00051	0.0025	0.001 U	0.0005 U
AN-14D	03/29/11	FS	0.1 U	0.00058	0.0032	0.001 U	0.0005 U
AN-15	05/01/09	FS		0.5 U	4.6	1 U	1.8
AN-15	04/09/10	FS		0.05 U	6.9	0.1 U	0.5
AN-15	04/06/11	FS		0.0027	5.6	0.001 U	1.9
AN-8	04/29/09	FS		0.0014	0.024	0.001 U	0.0005 U
AN-8	04/12/10	FS		0.0031	0.0022	0.001 U	0.0005 U
AN-8	04/01/11	FS		0.0019	0.0005 U	0.001 U	0.0005 U
AN-9	04/29/09	FS		0.0005 U	0.00068	0.001 U	0.0005 U
AN-9	04/08/10	FS		0.0005 U	0.0005 U	0.001 U	0.0005 U
AN-9	04/01/11	FS		0.0005 U	0.0005 U	0.001 U	0.0005 U
MW-15	04/30/09	FS		0.0024	2.6	0.001 U	0.75
MW-15	04/09/10	FS		0.05 U	9.5	0.1 U	1.8
MW-15	03/30/11	FS		0.0027	4.1	0.001 U	0.019
ORW-1	04/30/09	FS	18 J	0.0005 U	0.0005 U	0.001 U	0.0005 U
ORW-1	04/15/10	FS	0.71	0.0005 U	0.0005 U	0.001 U	0.0005 U
ORW-1	04/07/11	FS	5.4 J	0.0005 U	0.0005 U	0.001 U	0.0005 U
PW-2A	04/30/09	FS		0.5 U	7.2	1 U	1.4
PW-2A	04/13/11	FS		0.1 U	14	0.2 U	2.6
PW-4	04/30/09	FS		0.5 U	6.6	1 U	1.2
PW-4	04/13/11	FS		0.1 U	13	0.2 U	0.12
TOL-1	04/07/11	FS		0.5 U	30	1 U	0.5 U
TOL-2	04/07/11	FS		0.005 U	0.88	0.01 U	0.005 U
TP-1	05/01/09	FS		2 U	6.6	4 U	8.1
TP-1	04/09/10	FS		0.059	4	0.075	5.6
TP-1	04/07/11	FS		0.5 U	4	1 U	4.2
TP-12	04/29/09	FS		0.0005 U	0.0005 U	0.001 U	0.0005 U
TP-12	04/09/10	FS		0.0005 U	0.00066	0.001 U	0.0005 U
TP-12	04/01/11	FS		0.0005 U	0.0005 U	0.001 U	0.0005 U
TP-14	05/01/09	FS		0.25 U	3.7	0.5 U	0.25 U
TP-14	04/08/10	FS		0.025 U	4.3	0.05 U	0.034
TP-14	04/07/11	FS		0.13 U	6.5	0.25 U	0.13 U
TP-17	04/30/09	FS	0.92	0.0033	0.0005 U	0.001 U	0.0005 U
TP-17	04/09/10	FS	0.3	0.0005 U	0.0005 U	0.0016	0.00069
TP-17	04/07/11	FS	0.26	0.0005 U	0.0005 U	0.001 U	0.0005 U
TP-9	04/30/09	FS	0.89	0.0005 U	0.0005 U	0.001 U	0.0005 U
TP-9	04/08/10	FS	0.21	0.0005 U	0.0086	0.001 U	0.0005 U
TP-9	03/31/11	FS	0.1051	0.0005 U	0.0005 U	0.001 U	0.0005 U

Notes:

Analytical results from September 2008 thru April 2011

Results provided in mg/L only for constituents detected in at least one sample

"U" qualifier = non-detect

"J" qualifier = estimated

CT-GWPC = RSR for Groundwater in GA and GAA classified areas GWPROT

CT-GWVOLIND = Volatilization from groundwater - Industrial setting

CT-SWPROT = Surface water protection criteria (SWPC)

3.3^P = Proposed site-specific criterion

NC = No Criteria

Shading indicates value exceeds lowest criterion

FS = Field Sample; FD = Field Duplicate

TABLE 2D
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 820 - Building 5B Tank Farm
2010-2011

Chem Class	VOCs	VOCs	VOCs	VOCs	VOCs
	Methanol	1,2,4-Trimethylbenzene	Benzene	Ethyl benzene	Total Xylenes
Parameter Fraction	Total	Total	Total	Total	Total
	1 ^p	NC	0.001	0.7	0.53
	NC	NC	0.53	50	NC
CT-GWPC					
CT-GWVOLIND					
CT-SWPROT	3.3 ^p	NC	0.71	580	NC
Location	Sample Date	Qc Code			
MPI-1	11/02/10	FS	1 U	0.0005 U	0.00061
MPI-1	03/30/11	FS	1 U	0.0005 U	0.0005 U
MPI-2	03/31/11	FS	1 U	0.0005 U	0.0005 U
MPI-3	11/02/10	FS	1 U	0.0005 U	0.0005 U
MPI-3	03/30/11	FS	1 U	0.0005 U	0.0005 U
MPI-4	03/31/11	FS		0.0005 U	0.0005 U
MPI-5	03/31/11	FS		0.0005 U	0.0005 U
MW-17	10/29/10	FS	1 U	0.11	0.0005 U
MW-17	04/04/11	FS	1 U	0.25	0.0005 U
MW-18	10/28/10	FS	1 U	0.0005 U	0.0005 U
MW-18	04/04/11	FS	1.5	0.0005 U	0.0005 U
MW-19	09/15/10	FS		0.0005 U	0.0005 U
MW-19	10/29/10	FS	1 U	0.00065	0.0005 U
MW-19	04/04/11	FS	1 UJ	0.0005 U	0.0005 U
P-120	11/02/10	FS	1 U	0.0097	0.0005 U
P-120	04/04/11	FS	1 U	0.18	0.0005 U
P-123	10/27/10	FS	1 U	0.74	0.025
P-123	04/05/11	FS	1 U	0.68	0.046

Notes:

Analytical results from September 2008 thru April 2011

Results provided in mg/L only for constituents detected in at least one sample

"U" qualifier = non-detect

"J" qualifier = estimated

CT-GWPC = CT RSR - Groundwater Protection Criteria

CT-GWVOLIND = CT RSR - Volatilization from groundwater - Industrial setting

CT-SWPROT = CT RSR - Surface water protection criteria (SWPC)

3.3^p = Proposed site-specific criterion

NC = No Criteria

Shading indicates value exceeds lowest criterion

FS = Field Sample

TABLE 2E
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 830 - Methylformcel® Release
2010-2011

Chem Class	VOCs	VOCs	VOCs	VOCs
	Formaldehyde	Isobutyl alcohol	Methanol	n-Butanol
Parameter	Total	Total	Total	Total
	0.14 ^P	1 ^P	1 ^P	1 ^P
Fraction	NC	50 ^P	NC	NC
	10 ^P	10 ^P	3.3 ^P	10 ^P
CT-GWPC				
CT-GVWOLIND				
CT-SWPROT				
Location	Field Sample Date	Qc Code		
CW-1	10/21/10	FS	0.05 U	1 U
CW-1	04/07/11	FS	0.095	1 U
MW-16	10/21/10	FS	0.05 U	1 U
MW-16	04/05/11	FS	0.05 U	1 U
P-103	10/26/10	FD	0.05 U	1 U
P-103	10/26/10	FS	0.05 U	1 U
P-103	04/06/11	FD	0.05 U	1 U
P-103	04/06/11	FS	0.05 U	1 U
P-107	10/25/10	FS	0.18	1 U
P-107	04/07/11	FS	0.05 U	1 U
P-111	10/27/10	FS	210 J	110
P-111	04/07/11	FS	30	120
P-112	10/27/10	FS	0.05 U	1 U
P-112	04/06/11	FS	0.05 U	1 U
P-113	10/26/10	FS	0.05 U	1 U
P-113	04/06/11	FS	0.05 U	1 U
P-114	10/25/10	FS	0.05 U	1 U
P-114	04/06/11	FS	0.05 U	1 U
P-115	11/01/10	FS	0.05 U	1 U
P-115	04/06/11	FS	0.05 U	1 U
P-118	10/22/10	FS	0.05 U	1 U
P-118	04/05/11	FS	0.05 U	1 U

Notes:

Analytical results from September 2008 thru April 2011

Results provided in mg/L only for constituents detected in at least one sample

"U" qualifier = non-detect

"J" qualifier = estimated

CT-GWPC = RSR for Groundwater in GA and GAA classified areas GWPROT

CT-GVWOLIND = Volatilization from groundwater - Industrial setting

CT-SWPROT = Surface water protection criteria (SWPC)

3.3^P = Proposed site-specific criterion

NC = No Criteria

Shading indicates value exceeds lowest criterion.

FS = Field Sample; FD = Field Duplicate

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
 2009-2010

Parameter	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	2-Butanone	Benzene	Carbon tetrachloride	Chloroform	Chloromethane	Ethyl benzene	Methyl Tertbutyl Ether
	Total	Total	Total	Total	Total	Total	Total	Total	Total
	PPMV	PPMV	PPMV	PPMV	PPMV	PPMV	PPMV	PPMV	PPMV
CT-SV VOLIND	4520	NC	8285	113	2.7	10.4	NC	5672	3415
Location	Sample Date	Qc Code							
SG-001	12/08/09	FS	0.002	0.0002 U	0.0005 U	0.0003	0.0002 U	0.11	0.0005 U
SG-001	10/14/10	FS	0.0068	0.002 U	0.005 U	0.002 U	0.002 U	0.37	0.005 U
SG-002	12/08/09	FS	0.0012	0.00093	0.0015 U	0.0015	0.0006 U	0.01	0.0019
SG-002	09/28/10	FS	0.0014	0.0004 U	0.001 U	0.0004 U	0.0004 U	0.016	0.001 U
SG-003	12/08/09	FS	0.0002	0.0002 U	0.00063	0.0004	0.0002 U	0.0012	0.0005 U
SG-003	09/28/10	FS	0.00093	0.0002 U	0.0005 U	0.0002 U	0.00023	0.006	0.0005 U

Notes:

Results provided only for constituents detected in at least one sample

"U" qualifier = non-detect

PPMV = parts per million (volumetric)

CT-SV VOLIND = Connecticut Industrial volatilization criteria for soil vapor

FS = Field Sample

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
 2009-2010

Parameter	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoromethane	Xylene, o	Xylenes (m&p)	Xylenes, Total
	Total	Total	Total	Total	Total	Total	Total	Total
	PPMV	PPMV	PPMV	PPMV	PPMV	PPMV	PPMV	PPMV
CT-SV VOLIND	28	27	2615	16	NC	NC	NC	1702
Location	Sample Date	Qc Code						
SG-001	12/08/09	FS	0.0002 U	0.0002 U	0.0046	0.0056	0.00023	0.00027
SG-001	10/14/10	FS	0.002 U	0.0028	0.002 U	0.037	0.002 U	0.002 U
SG-002	12/08/09	FS	0.0006	0.0006 U	0.081	0.0006 U	0.0006 U	0.0037
SG-002	09/28/10	FS	0.0016	0.0004 U	0.063	0.0004 U	0.0004 U	0.001 U
SG-003	12/08/09	FS	0.0002 U	0.0002 U	0.0046	0.0002 U	0.00028	0.0002 U
SG-003	09/28/10	FS	0.0002 U	0.0019	0.0007	0.0002 U	0.00042	0.0002 U

Notes:

Results provided only for constituents detected in at least one sample

"U" qualifier = non-detect

PPMV = parts per million (volumetric)

CT-SV VOLIND = Connecticut Industrial volatilization criteria for soil vapor

FS = Field Sample

Table 4A
SOIL ANALYTICAL RESULTS SUMMARY
 1997 to 2007

Chem Class Parameter	Fraction	EPH	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
		Extractable Petroleum Hydrocarbons, Total	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Magnesium	Mercury
		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
IC/DEC Units		2500	NC	10	140000	1000	100	NC	76000	1000	610	7500
		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
AOC # - Description	Location	Depth	Sample Date	Qc Code								
420 - Powder Dump	MW-PD4	5.0 - 7.0	12/9/1997 0:00	FS		2	22.4	0.25	6	9.1	3.5	0.17 U
420 - Powder Dump	MW-PD4	10.0 - 12.0	12/9/1997 0:00	FS		2.7	39.2	0.37	11.1	23.7	4.4	0.18 U
420 - Powder Dump	MW-PD5	5.0 - 7.0	12/9/1997 0:00	FS		1.3	14.1	0.21 U	4.4	5.4	2.1 U	0.18 U
420 - Powder Dump	TP-PD-3	1.3 - 1.3	10/22/1997 0:00	FS								
420 - Powder Dump	TP-PD-3	5.0 - 7.0	10/22/1997 0:00	FS	6200	1.27 U	27	0.34	6.3	5.2	7.8	3.6
805 - Building 10 Tank Farm	B-805	9.0 - 11.0	12/9/1998 0:00	FS								
805 - Building 10 Tank Farm	B-805	11.0 - 13.0	12/4/2000 0:00	FS								
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/9/1998 0:00	FS								
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/5/2000 0:00	FS								
805 - Building 10 Tank Farm	B-810	7.0 - 9.0	12/5/2000 0:00	FS								
805 - Building 10 Tank Farm	B-810	11.0 - 12.0	12/5/2000 0:00	FS								
805 - Building 10 Tank Farm	B-937	14.0 - 14.0	11/7/2007 0:00	FS								
805 - Building 10 Tank Farm	B-938	10.0 - 15.0	11/6/2007 0:00	FS								
805 - Building 10 Tank Farm	B-943	11.0 - 16.0	11/6/2007 0:00	FS	8061							
805 - Building 10 Tank Farm	B-945	14.0 - 14.0	11/6/2007 0:00	FS								
805 - Building 10 Tank Farm	TP-B10-1	2.0 - 2.0	11/5/2007 0:00	FS	1718							
820 - Building 5B Tank Farm	Beetle 1	5.0 - 7.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Beetle 1	14.5 - 16.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Beetle 2	5.5 - 7.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Beetle 2	14.5 - 16.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Beetle 3	5.0 - 7.0	5/7/1998 0:00	FS								
820 - Building 5B Tank Farm	Beetle 3	10.0 - 12.0	5/7/1998 0:00	FS								
820 - Building 5B Tank Farm	Beetle 4	5.0 - 7.0	5/7/1998 0:00	FS								
820 - Building 5B Tank Farm	Empol 1	6.0 - 8.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Empol 2	5.0 - 7.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Empol 2A	5.0 - 7.0	5/7/1998 0:00	FS								
820 - Building 5B Tank Farm	Empol 3	5.0 - 7.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Empol 3	14.0 - 16.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Empol 4	4.0 - 6.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	Empol 4	12.0 - 14.0	5/6/1998 0:00	FS								
820 - Building 5B Tank Farm	TGB1	4.0 - 6.0	6/11/1998 0:00	FS								
820 - Building 5B Tank Farm	TGB1	6.0 - 8.0	6/11/1998 0:00	FS								
820 - Building 5B Tank Farm	TGB2	2.5 - 3.0	6/11/1998 0:00	FS								
820 - Building 5B Tank Farm	TGB2	3.5 - 5.5	6/11/1998 0:00	FS								
820 - Building 5B Tank Farm	TGB2	5.5 - 7.5	6/11/1998 0:00	FS								
820 - Building 5B Tank Farm	TGB3	3.0 - 3.3	6/11/1998 0:00	FS								
820 - Building 5B Tank Farm	TK101-16 D	3.0 - 5.0	10/13/1998 0:00	FS								
820 - Building 5B Tank Farm	TK101-16 E	9.0 - 11.0	10/14/1998 0:00	FS								
820 - Building 5B Tank Farm	TK101-16 F	9.0 - 11.0	10/13/1998 0:00	FS								
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/19/1998 0:00	FS								
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/20/1998 0:00	FS								

Table 4A
SOIL ANALYTICAL RESULTS SUMMARY
 1997 to 2007

Chem Class Parameter	Metals		Metals		PCBs		SVOCs		SVOCs		SVOCs		TPH		VOCs		VOCs	
	Silver	Vanadium	Zinc	Aroclor-1254	Bis(2-Ethylhexyl)phthalate	Methanol	n-Butanol	Total Petroleum Hydrocarbons	1,2,4-Trichlorobenzene	1,2,4-Triethylbenzene	1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Petroleum Hydrocarbons	1,2,4-Trichlorobenzene	1,2,4-Triethylbenzene	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
Fraction	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
IC/DEC Units	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
AOC # - Description	Location	Depth	Sample Date	Qc Code														
420 - Powder Dump	MW-PDA	5.0 - 7.0	12/9/1997 0:00	FS	1.2	15.9	14.2	0.1 U	0.17 U					10	0.17 U			0.17 U
420 - Powder Dump	MW-PDA	10.0 - 12.0	12/9/1997 0:00	FS	0.85	26	23.6	0.1 U	0.17 U					5 U	0.17 U			0.17 U
420 - Powder Dump	MW-PD5	5.0 - 7.0	12/9/1997 0:00	FS	0.22	70.7	11	0.1 U	0.17 U					5 U	0.17 U			0.17 U
420 - Powder Dump	TP-PD-3	1.3 - 1.3	10/22/1997 0:00	FS				0.1 U					802					
420 - Powder Dump	TP-PD-3	5.0 - 7.0	10/22/1997 0:00	FS	0.83	17.8	22	0.1 U	0.24					41	0.17 U			0.17 U
805 - Building 10 Tank Farm	B-805	9.0 - 11.0	12/9/1998 0:00	FS														
805 - Building 10 Tank Farm	B-805	11.0 - 13.0	12/4/2000 0:00	FS														
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/9/1998 0:00	FS														
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/5/2000 0:00	FS														
805 - Building 10 Tank Farm	B-810	7.0 - 9.0	12/5/2000 0:00	FS														
805 - Building 10 Tank Farm	B-810	11.0 - 12.0	12/5/2000 0:00	FS														
805 - Building 10 Tank Farm	B-937	14.0 - 14.0	11/1/2007 0:00	FS														1 U
805 - Building 10 Tank Farm	B-938	10.0 - 15.0	11/6/2007 0:00	FS														10 U
805 - Building 10 Tank Farm	B-943	11.0 - 16.0	11/6/2007 0:00	FS														10 U
805 - Building 10 Tank Farm	B-945	14.0 - 14.0	11/9/2007 0:00	FS														1 U
805 - Building 10 Tank Farm	TP-B10-1	2.0 - 2.0	11/5/2007 0:00	FS														1 U
820 - Building 5B Tank Farm	Beetle 1	5.0 - 7.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 1	14.5 - 16.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 2	5.5 - 7.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 2	14.5 - 16.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 3	5.0 - 7.0	5/7/1998 0:00	FS										38	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 3	10.0 - 12.0	5/7/1998 0:00	FS										63	24	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 4	5.0 - 7.0	5/7/1998 0:00	FS										30	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 1	6.0 - 8.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.0036	0.001 U
820 - Building 5B Tank Farm	Empol 2	5.0 - 7.0	5/6/1998 0:00	FS										10 U	10 U	0.0051	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 2A	5.0 - 7.0	5/7/1998 0:00	FS										10 U	10 U	0.027	0.0031	0.0013
820 - Building 5B Tank Farm	Empol 3	5.0 - 7.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 3	14.0 - 16.0	5/6/1998 0:00	FS										1 U	1 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 4	4.0 - 6.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 4	12.0 - 14.0	5/6/1998 0:00	FS										10 U	10 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	TGB1	4.0 - 6.0	6/11/1998 0:00	FS										10 U	10 U			
820 - Building 5B Tank Farm	TGB1	6.0 - 8.0	6/11/1998 0:00	FS										10 U	10 U			
820 - Building 5B Tank Farm	TGB2	2.5 - 3.0	6/11/1998 0:00	FS										10 U	10 U			
820 - Building 5B Tank Farm	TGB2	3.5 - 5.5	6/11/1998 0:00	FS										10 U	10 U			
820 - Building 5B Tank Farm	TGB2	5.5 - 7.5	6/11/1998 0:00	FS										10 U	10 U			
820 - Building 5B Tank Farm	TGB3	3.0 - 3.3	6/11/1998 0:00	FS										10 U	10 U			
820 - Building 5B Tank Farm	TK101-16 D	3.0 - 5.0	10/13/1998 0:00	FS										10 U	28			
820 - Building 5B Tank Farm	TK101-16 E	9.0 - 11.0	10/14/1998 0:00	FS										10 U	120			
820 - Building 5B Tank Farm	TK101-16 F	9.0 - 11.0	10/13/1998 0:00	FS										10 U	190			
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/19/1998 0:00	FS										10 U	10 U			
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/20/1998 0:00	FS										10 U	10 U			

Table 4A
SOIL ANALYTICAL RESULTS SUMMARY
 1997 to 2007

Chem Class Parameter	VOCs		VOCs		VOCs		VOCs		VOCs		VOCs	
	4-Chlorotoluene		4-iso-Propyltoluene		Bromobenzene		Ethyl benzene		Formaldehyde		Isobutyl alcohol	
	Total	IC/DEC Units	Total	MG/KG	Total	MG/KG	Total	MG/KG	Total	MG/KG	Total	MG/KG
AOC # - Description	Location	Depth	Sample Date	Qc Code								
420 - Powder Dump	MW-PD4	5.0 - 7.0	12/9/1997 0:00	FS					0.001 U	1 U		0.002 U
420 - Powder Dump	MW-PD4	10.0 - 12.0	12/9/1997 0:00	FS					0.001 U	1 U		0.002 U
420 - Powder Dump	MW-PD5	5.0 - 7.0	12/9/1997 0:00	FS					0.001 U	1 U		0.002 U
420 - Powder Dump	TP-PD-3	1.3 - 1.3	10/22/1997 0:00	FS						15.3		
420 - Powder Dump	TP-PD-3	5.0 - 7.0	10/22/1997 0:00	FS					0.001 U	2.7		0.0083
805 - Building 10 Tank Farm	B-805	9.0 - 11.0	12/9/1998 0:00	FS					1000 U			
805 - Building 10 Tank Farm	B-805	11.0 - 13.0	12/4/2000 0:00	FS					0.005 U			
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/9/1998 0:00	FS					1000 U			
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/5/2000 0:00	FS					340			
805 - Building 10 Tank Farm	B-810	7.0 - 9.0	12/5/2000 0:00	FS					250 U			
805 - Building 10 Tank Farm	B-810	11.0 - 12.0	12/5/2000 0:00	FS					1250 U			
805 - Building 10 Tank Farm	B-937	14.0 - 14.0	11/7/2007 0:00	FS					1 U			
805 - Building 10 Tank Farm	B-938	10.0 - 15.0	11/6/2007 0:00	FS					10 U			
805 - Building 10 Tank Farm	B-943	11.0 - 16.0	11/6/2007 0:00	FS					85 J			
805 - Building 10 Tank Farm	B-945	14.0 - 14.0	11/9/2007 0:00	FS					78 J			
805 - Building 10 Tank Farm	TP-B10-1	2.0 - 2.0	11/5/2007 0:00	FS					5			
820 - Building 5B Tank Farm	Beetle 1'	5.0 - 7.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	5.9	10 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 1'	14.5 - 16.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	1.8	10 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 2	5.5 - 7.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	1.4	10 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 2	14.5 - 16.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	1 U	10 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 3	5.0 - 7.0	5/7/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	0.0061	1 U	28	0.0025
820 - Building 5B Tank Farm	Beetle 3	10.0 - 12.0	5/7/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	0.0013	1 U	35	0.001 U
820 - Building 5B Tank Farm	Beetle 4	5.0 - 7.0	5/7/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	0.074	3.2	10 U	0.001 U
820 - Building 5B Tank Farm	Empol 1	6.0 - 8.0	5/6/1998 0:00	FS	0.0045	0.001 U	0.0021	0.001 U	1 U	10 U	0.0043	0.0038
820 - Building 5B Tank Farm	Empol 2	5.0 - 7.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	1 U	10 U	0.0025	0.0027
820 - Building 5B Tank Farm	Empol 2A	5.0 - 7.0	5/7/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	1 U	10 U	0.0035	0.0066
820 - Building 5B Tank Farm	Empol 3	5.0 - 7.0	5/6/1998 0:00	FS	0.001 U	0.0011	0.001 U	0.001 U	1 U	10 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 3	14.0 - 16.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	1 U	10 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 4	4.0 - 6.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1 U	10 U	0.001 U
820 - Building 5B Tank Farm	Empol 4	12.0 - 14.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1 U	10 U	0.001 U
820 - Building 5B Tank Farm	TGB1	4.0 - 6.0	6/11/1998 0:00	FS							10 U	
820 - Building 5B Tank Farm	TGB1	6.0 - 8.0	6/11/1998 0:00	FS							10 U	
820 - Building 5B Tank Farm	TGB2	2.5 - 3.0	6/11/1998 0:00	FS							10 U	
820 - Building 5B Tank Farm	TGB2	3.5 - 5.5	6/11/1998 0:00	FS							10 U	
820 - Building 5B Tank Farm	TGB2	5.5 - 7.5	6/11/1998 0:00	FS							53	
820 - Building 5B Tank Farm	TGB3	3.0 - 3.3	6/11/1998 0:00	FS							10 U	
820 - Building 5B Tank Farm	TK101-16 D	3.0 - 5.0	10/13/1998 0:00	FS					4.91		10 U	
820 - Building 5B Tank Farm	TK101-16 E	9.0 - 11.0	10/14/1998 0:00	FS					130		19	
820 - Building 5B Tank Farm	TK101-16 F	9.0 - 11.0	10/13/1998 0:00	FS					82.6		20	
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/19/1998 0:00	FS					1 U		10 U	
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/20/1998 0:00	FS					1 U		10 U	

Table 4A
SOIL ANALYTICAL RESULTS SUMMARY
 1997 to 2007

Chem Class Parameter	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VPH
	Naphthalene	Styrene	tert-Butylbenzene	Toluene	Xylene, o	Xylenes (m&p)	Xylenes, Total	Volatile Petroleum Hydrocarbons, Total
	Total	Total	Total	Total	Total	Total	Total	Total
Fraction								
IC/DEC Units	2500	1000		1000	1000	1000	1000	
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
AOC # - Description	Location	Depth	Sample Date	QC Code				
420 - Powder Dump	MW-PD4	5.0 - 7.0	12/9/1997 0:00	FS	0.17 U	0.001 U		0.001 U
420 - Powder Dump	MW-PD4	10.0 - 12.0	12/9/1997 0:00	FS	0.17 U	0.001 U		0.001 U
420 - Powder Dump	MW-PD5	5.0 - 7.0	12/9/1997 0:00	FS	0.17 U	0.001 U		0.001 U
420 - Powder Dump	TP-PD-3	1.3 - 1.3	10/22/1997 0:00	FS				
420 - Powder Dump	TP-PD-3	5.0 - 7.0	10/22/1997 0:00	FS	0.17 U	0.001 U		0.001 U
805 - Building 10 Tank Farm	B-805	9.0 - 11.0	12/9/1998 0:00	FS		1000 U	1100	1000 U
805 - Building 10 Tank Farm	B-805	11.0 - 13.0	12/4/2000 0:00	FS		0.005 U	0.005 U	0.005 U
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/9/1998 0:00	FS		1000 U	6800	1000 U
805 - Building 10 Tank Farm	B-810	5.0 - 7.0	12/5/2000 0:00	FS		120	1300	
805 - Building 10 Tank Farm	B-810	7.0 - 9.0	12/5/2000 0:00	FS		1400	7200	
805 - Building 10 Tank Farm	B-810	11.0 - 12.0	12/5/2000 0:00	FS		1250 U	22000	
805 - Building 10 Tank Farm	B-937	14.0 - 14.0	11/7/2007 0:00	FS		1 U	11 J	1 U
805 - Building 10 Tank Farm	B-938	10.0 - 15.0	11/6/2007 0:00	FS		25	367	10 U
805 - Building 10 Tank Farm	B-943	11.0 - 16.0	11/6/2007 0:00	FS	10 U	220 J	562 J	17 J
805 - Building 10 Tank Farm	B-945	14.0 - 14.0	11/9/2007 0:00	FS		20 J	328 J	27 J
805 - Building 10 Tank Farm	TP-B10-1	2.0 - 2.0	11/5/2007 0:00	FS		8	149	1 U
820 - Building 5B Tank Farm	Beetle 1	5.0 - 7.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 1	14.5 - 16.0	5/6/1998 0:00	FS		0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 2	5.5 - 7.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 2	14.5 - 16.0	5/6/1998 0:00	FS		0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Beetle 3	5.0 - 7.0	5/7/1998 0:00	FS	0.0017	0.001 U	0.001 U	0.084
820 - Building 5B Tank Farm	Beetle 3	10.0 - 12.0	5/7/1998 0:00	FS		0.001 U	0.001 U	0.011
820 - Building 5B Tank Farm	Beetle 4	5.0 - 7.0	5/7/1998 0:00	FS		0.001 U	0.001 U	0.095
820 - Building 5B Tank Farm	Empol 1	5.0 - 7.0	5/6/1998 0:00	FS	0.0013	0.001 U	0.001 U	0.0025
820 - Building 5B Tank Farm	Empol 1	6.0 - 8.0	5/6/1998 0:00	FS	0.0017	0.001 U	0.0049	0.001 U
820 - Building 5B Tank Farm	Empol 2	5.0 - 7.0	5/6/1998 0:00	FS		0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 2A	5.0 - 7.0	5/7/1998 0:00	FS	0.0042	0.001 U	0.001 U	0.0057
820 - Building 5B Tank Farm	Empol 3	5.0 - 7.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.0057
820 - Building 5B Tank Farm	Empol 3	14.0 - 16.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 4	4.0 - 6.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	Empol 4	12.0 - 14.0	5/6/1998 0:00	FS	0.001 U	0.001 U	0.001 U	0.001 U
820 - Building 5B Tank Farm	TGB1	4.0 - 6.0	6/11/1998 0:00	FS		73		2 U
820 - Building 5B Tank Farm	TGB1	6.0 - 8.0	6/11/1998 0:00	FS		3700		2 U
820 - Building 5B Tank Farm	TGB2	2.5 - 3.0	6/11/1998 0:00	FS		10		84
820 - Building 5B Tank Farm	TGB2	3.5 - 5.5	6/11/1998 0:00	FS		61		84
820 - Building 5B Tank Farm	TGR2	5.5 - 7.5	6/11/1998 0:00	FS		68		1 U
820 - Building 5B Tank Farm	TGR2	3.0 - 3.3	6/11/1998 0:00	FS	0.001 U		1.6	1.6
820 - Building 5B Tank Farm	TK101-16 D	3.0 - 5.0	10/13/1998 0:00	FS		0.001 U	0.001 U	
820 - Building 5B Tank Farm	TK101-16 E	9.0 - 11.0	10/14/1998 0:00	FS		0.2 U	0.2 U	0.2 U
820 - Building 5B Tank Farm	TK101-16 F	9.0 - 11.0	10/13/1998 0:00	FS		25 U	850	2900
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/19/1998 0:00	FS		25 U	190	550
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/20/1998 0:00	FS	0.001 U		0.001 U	740
820 - Building 5B Tank Farm	TK-202-4	11.0 - 13.0	10/20/1998 0:00	FS	0.01 U		0.059 U	0.19 U

Notes:

Analytical results from December 1997 thru November 2007 representing data from tank closures and voluntary investigation programs. Data provided summarizes surface and subsurface soil sample collected from 0.0 ft bgs to 15 ft bgs. Results provided in mg/kg only for constituents detected in at least one sample "U" qualifier = non-detect
 "J" qualifier = estimated
 MG/KG = milligrams per kilogram
 10" = Proposed site-specific criterion
 AOC - area of concern
 NC = No Criteria
 IC/DEC - Connecticut Industrial/Commercial Direct Exposure Criteria
 Shading indicates value exceeds criterion
 FS = Field Sample; FD = Field Duplicate

Table 4B
SOIL ANALYTICAL RESULTS SUMMARY
 2008 thru 2010

Chem Class	EPH	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	PCBs				
	Parameter	Extractable Petroleum Hydrocarbons	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aroclor-1016			
		Fraction	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total				
AOC #	Location ID	Depth	Sample Date	Qc Code																		
1005	TP-103	7.0 - 7.0	12/29/08	FS	12 U													0.018 U				
1005	TP-104	3.0 - 3.0	12/29/08	FS	13 U													0.017 U				
105	SB-986	8.0 - 10.0	09/16/10	FS		0.72 U	0.58	17	0.45 U	0.45 U	5.2	2.3	6	1.8	0.047 U	5.2	0.91 U	0.45 U	0.63 U	9.7	11	0.018 U
105	SB-986	13.0 - 15.0	09/16/10	FS		0.83 U	0.81	29	0.52 U	0.52 U	7.8	3.5	10	3.6	0.046 U	6.8	1 U	0.52 U	0.73 U	17	18	0.018 U
105	SB-987	8.5 - 10.0	09/16/10	FS		0.8 U	0.62	34	0.5 U	0.5 U	5.6	3.2	6.5	2.7	0.051 U	7.9	1 U	0.5 U	0.7 U	9.2	16	0.018 U
105	SB-987	13.0 - 15.0	09/16/10	FS		0.83 U	1.1	27	0.52 U	0.52 U	10	4.1	12	3.4	0.045 U	9	1 U	0.52 U	0.72 U	22	22	0.018 U
105	SB-988	8.0 - 10.0	09/16/10	FS		0.82 U	0.57	16	0.51 U	0.51 U	4.5	2.1	5.4	1.7	0.047 U	4.7	1 U	0.51 U	0.72 U	8.3	11	0.018 U
105	SB-988	13.0 - 15.0	09/16/10	FS		0.81 U	0.78	20	0.51 U	0.51 U	8.7	3.3	11	3.1	0.052 U	7.4	1 U	0.51 U	0.71 U	19	20	0.018 U
105	SB-989	8.0 - 10.0	09/17/10	FS		0.65 U	0.64	25	0.4 U	0.4 U	6.9	3.4	8.1	2.5	0.046 U	6.8	0.85	0.4 U	0.57 U	13	16	0.018 U
105	SB-990	8.0 - 9.0	09/17/10	FS		0.81 U	0.58	30	0.5 U	0.64	11	2.8	7.2	3.3	0.045 U	9	1 U	0.5 U	0.71 U	11	26	0.017 U
105	SB-990	13.0 - 15.0	09/17/10	FS		0.68 U	0.65	27	0.43 U	0.43 U	6.7	2.4	9.9	2.7	0.051 U	6.1	0.85 U	0.43 U	0.6 U	13	17	0.018 U
105	SB-991	8.0 - 10.0	09/17/10	FS		0.68 U	0.88	25	0.42 U	0.42 U	8.2	3.7	10	2.8	0.048 U	7.5	0.85 U	0.42 U	0.59 U	15	17	0.017 U
105	TP-108	9.0 - 9.0	12/15/08	FD																		
105	TP-108	9.0 - 9.0	12/15/08	FS	59	1.2 U	0.47 J	32.8 J	0.62 U	1.1	12.6 J	3.2	6.5 J	1.7 J	0.054 U	7.3	0.45 J	0.62 U	0.86 U	7.7 J	18.4	0.018 U
105	TP-109	7.0 - 7.0	12/18/08	FS	22	1.3 U	0.36 J	33.6 J	0.13 J	0.28 J	7.1 J	3.1	5.7 J	5 J	0.052 U	7.6	0.88 U	0.63 U	0.88 U	7.2 J	19.5	0.018 U
1100	SB-974	5.0 - 7.0	11/24/09	FS	13 U																	0.018 U
115	SB-1000	9.0 - 10.0	09/22/10	FS		0.75 UJ	0.55	21 J	0.47 U	0.47 U	5.5	2.6	6.5	1.9	0.049 U	5.5	0.93 U	0.47 U	0.65 U	10 J	15 J	0.017 U
115	SB-1001	13.0 - 15.0	09/21/10	FS		0.81 U	0.5	31	0.5 U	0.5 U	6.6	2.3	5.4	1.9	0.048 U	6.1	1 U	0.5 U	0.7 U	9.9	14	0.018 U
115	SB-1002	13.0 - 15.0	09/17/10	FS		0.83 U	0.57	31	0.52 U	0.52 U	6.7	2	7.6	2.2	0.053 U	5.9	1 U	0.52 U	0.73 U	11	17	0.018 U
115	SB-1003	13.0 - 14.0	09/21/10	FS		0.8 U	1	31	0.5 U	0.5 U	8.8	4	14	3.4	0.05 U	7.6	0.99 U	0.5 U	0.7 U	18	20	0.017 U
115	SB-992	8.0 - 10.0	09/23/10	FD		0.68 UJ	3.6	24 J	0.42 U	0.42 U	4.5	1.9	5.4	1.8	0.047 U	4.7	0.85 U	0.42 U	0.59 U	11 J	12 J	0.017 U
115	SB-992	8.0 - 10.0	09/23/10	FS		0.77 UJ	0.75	31 J	0.48 U	0.48 U	5.7	2.5	5.7	2.3	0.047 U	5.6	0.97 U	0.48 U	0.68 U	11 J	12 J	0.017 U
115	SB-993	3.0 - 5.0	09/23/10	FS		0.74 U	0.82	12 J	0.46 U	0.46 U	4.5	2	5.7	2.1	0.045 U	4.5	0.93 U	0.46 U	0.65 U	10 J	13 J	0.017 U
115	SB-993	8.0 - 10.0	09/23/10	FD		0.6 U	1.1	20 J	0.37 U	0.37 U	6.2	3.7	7.8	2.5	0.047 U	8	0.75	0.37 U	0.52 U	11 J	16 J	0.017 U
115	SB-993	8.0 - 10.0	09/23/10	FS		0.7 U	0.82	25 J	0.43 U	0.43 U	5.6	3.4	8.5	3.4	0.05 U	7.3	1	0.43 U	0.61 U	12 J	17 J	0.017 U
115	SB-994	8.0 - 10.0	09/24/10	FS		0.81 U	0.51 U	37	0.51 U	0.51 U	6.5	1.8	7.8	2.2	0.051 U	5.8	1 U	0.51 U	0.71 U	15	15	0.017 U
115	SB-995	6.0 - 8.0	09/22/10	FS		0.81 U	0.79	15 J	0.51 U	0.51 U	6.5	2.4	6.3	2.3	0.045 U	6.1	1 U	0.51 U	0.71 U	10 J	15 J	0.017 U
115	SB-996	4.0 - 5.0	09/22/10	FS		0.67 UJ	0.84	13 J	0.42 U	0.42 U	6.5	2.8	7.3	2.7	0.046 U	6.7	0.84 U	0.42 U	0.59 U	13 J	20 J	0.017 U
115	SB-996	6.0 - 8.0	09/22/10	FS		0.58 UJ	0.74	16 J	0.36 U	0.36 U	5.2	2.2	6	2	0.046 U	5.1	0.76	0.36 U	0.51 U	9.8 J	13 J	0.017 U
115	SB-997	6.0 - 10.0	09/22/10	FS		0.68 UJ	0.68	15 J	0.43 U	0.43 U	6.1	3	7.7	2.8	0.05 U	6.7	0.85 U	0.43 U	0.6 U	13 J	23 J	0.017 U
115	SB-998	9.0 - 10.0	09/21/10	FS		0.82 U	0.82	23	0.52 U	0.52 U	13	3.9	10	3	0.051 U	8.5	1 U	0.52 U	0.72 U	15	17	0.018 U
115	SB-999	4.0 - 5.0	09/21/10	FS		0.77 U	0.99	24	0.48 U	0.48 U	8.2	3.6	7.9	3.7	0.048 U	8.4	0.97 U	0.48 U	0.68 U	15	19	0.017 U
115	SB-999	8.0 - 10.0	09/21/10	FS		0.81 U	0.81	24	0.51 U	0.51 U	7.5	3.3	9.7	3.2	0.051 U	7.9	1 U	0.51 U	0.71 U	14	18	0.018 U
115	TP-105	11.0 - 11.0	12/11/08	FS	350	1.3 U	0.32 J	23.2	0.63 U	0.88 U	5.3	1.8	7.8	1.6	0.02 J	4.8	0.88 U	0.63 U	0.88 U	9.2	14.8	1.8 U
115	TP-106	14.0 - 14.0	12/15/08	FS	13 U	1.1 U	0.82	19.5 J	0.17 J	0.78 U	8 J	2.2	12.7 J	2.2 J	0.053 U	5.7	0.59 J	0.56 U	0.78 U	15 J	15	0.018 U
115	TP-107	8.0 - 8.0	12/12/08	FD	150 J	1.1 U	0.58 J	13.9 J	0.15 J	0.27 J	15.7 J	3	17.6 J	5.6 J	0.057 U	5.7	0.78 U	0.56 U	0.78 U	14.7 J	16.3	0.02 U
115	TP-107	8.0 - 8.0	12/12/08	FS	73 J	0.95 U	0.52 J	29.2 J	0.21 J	0.37 J	15.6 J	2.6	11.1 J	3.5 J	0.052 U	6.6	0.66 U	0.47 U	0.66 U	14.5 J	18.4	0.018 U
1320	SB-975	1.0 - 2.0	11/24/09	FS	920 J																	0.019 U
1320	SB-976	1.0 - 3.0	11/24/09	FS	48																	0.019 U
1320	SB-977	0.5 - 1.0	11/24/09	FS	62																	0.018 U
1330	SS-01	0.0 - 0.5	11/13/09	FS	13000																	0.018 U
1330	SS-02	0.0 - 0.5	11/13/09	FS	420																	0.018 U
1330	SS-03	0.0 - 0.5	11/13/09	FS	21																	0.018 U
215C	SB-1004	8.0 - 11.0	09/24/10	FS																		
215C	SB-1005	11.0 - 13.0	09/24/10	FS																		
215C	SB-1006	11.0 - 13.0	09/24/10	FD																		
215C	SB-1006	11.0 - 13.0	09/24/10	FS																		
215C	TP-120A	9.0 - 10.5	02/05/10	FS																		
215C	TP-120B	9.0 - 10.5	02/05/10	FS																		

Table 4B
SOIL ANALYTICAL RESULTS SUMMARY
 2008 thru 2010

AOC #	Location ID	Depth	Sample Date	Qc Code	Chem Class																							
					EPH			Metals		Metals		Metals		Metals		Metals		Metals		Metals		Metals		PCBs				
					Extractable		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper		Lead		Mercury		Nickel	
					Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
				IC/DEC	2500	8200	10	140000	2	1000	100	70 ^b	76000	1000	610	7500	10000	10000	160	14000	14000	610000	10					
251	TP-101	9.0 - 9.0	12/23/08	FS																								
420	SB-963	11.0 - 16.0	12/15/08	FS			1.1 U	1.1	11.2 J	0.15 J	1.3	4.7 J	2	5.5 J	3.6 J	0.018 J	4.6	0.64 J	0.55 U	0.77 U	11.1 J	19.3						
420	SB-964	5.0 - 10.0	12/15/08	FS			1.2 U	1.5	490 J	0.31 J	24.5	8.5 J	3.1	9.6 J	9.2 J	0.065	7.1	2.6	0.58 U	0.81 U	13.7 J	157						
420	SB-964	14.0 - 19.0	12/15/08	FS			2.6 U	0.65 J	4.5 J	1.3 U	378	128 J	1.1 J	10 J	13.2 J	2.1	2	19.3	1.3 U	1.9 U	10.8 J	70.3						
420	SB-969	13.0 - 15.0	11/12/09	FS		13 U																						
420	SB-971	13.0 - 13.5	11/18/09	FS		13 U																						
420	SB-972	11.0 - 12.5	11/18/09	FS		46																						
420	SB-973	14.0 - 15.0	11/18/09	FS		13 U																						
600	SB-1007	1.0 - 2.0	09/20/10	FS		43																				0.36 U		
600	SS-04	1.0 - 2.0	09/20/10	FS		12 U																				0.018 U		
600	SS-05	1.0 - 2.0	09/20/10	FS		12 U																				0.017 U		
600	SS-06	1.0 - 2.0	09/20/10	FS		14																				0.018 U		
600	SS-07	1.0 - 2.0	09/20/10	FS		12 U																				0.017 U		
600	SS-08	1.0 - 2.0	09/20/10	FS		12 U																				0.017 U		
600	SS-09	1.0 - 2.0	09/20/10	FS		12 U																				0.018 U		
600	SS-10	1.0 - 2.0	09/20/10	FS		12 U																				0.018 U		
600	SS-11	1.0 - 2.0	09/20/10	FS		12 U																				0.018 U		
805	SB-966	11.0 - 16.0	11/11/09	FS																								
805	SB-966	13.0 - 15.0	11/11/09	FS																								
805	SB-967	13.0 - 15.0	11/12/09	FS																								
805	SB-968	12.0 - 13.5	11/12/09	FS		18																						
805	SB-970	12.0 - 15.0	11/11/09	FD		51 J																						
805	SB-970	12.0 - 15.0	11/11/09	FS		15 J																						
820/895	SB-978	12.0 - 15.0	11/20/09	FS		13 U																						
820/895	SB-979	12.0 - 15.0	11/20/09	FS		13 U																						
820/895	SB-980	12.0 - 15.0	11/18/09	FS		13 U																						
820/895	SB-981	12.0 - 15.0	11/19/09	FS		41																						
820/895	SB-982	11.0 - 15.0	11/13/09	FS		12 U																						
820/895	SB-983	12.0 - 15.0	11/13/09	FS		12 U																						
820/895	SB-984	12.0 - 15.0	11/19/09	FD		24 J																						
820/895	SB-984	12.0 - 15.0	11/19/09	FS		13 UJ																						
820/895	SB-985	12.0 - 15.0	11/20/09	FS		32																						
825	SB-1008	13.0 - 15.0	09/24/10	FS		13 U																						

Table 4B
SOIL ANALYTICAL RESULTS SUMMARY
 2008 thru 2010

Table 4B
SOIL ANALYTICAL RESULTS SUMMARY
 2008 thru 2010

AOC #	Location ID	Depth	Sample Date	Qc Code	Chem Class																			
					PCBs		PCBs		PCBs		Pesticides		SVOCs		SVOCs		SVOCs		SVOCs		SVOCs			
					Aroclor-1242	Aroclor-1248	Aroclor-1248	Aroclor-1254	Aroclor-1260	Hexachloro benzene	4-Methyl phenol	Aniline	Benzo(a) anthracene	Benzo(a) pyrene	Benzo (ghi) perylene	Bis(2-Ethylhexyl) phthalate	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Methanol			
Parameter	Fraction	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
IC/DEC		10	10	10	10	3.6	2500 ^p	107 ^p	7.8	1	2500 ^p	410	780 ^p	1 ^p	2500	7.8 ^p	2500 ^p							
251	TP-101	9.0 - 9.0	12/23/08	FS																				
420	SB-963	11.0 - 16.0	12/15/08	FS																				9.3 U
420	SB-964	5.0 - 10.0	12/15/08	FS																				
420	SB-964	14.0 - 19.0	12/15/08	FS																				
420	SB-969	13.0 - 15.0	11/12/09	FS																				
420	SB-971	13.0 - 13.5	11/18/09	FS																				1 U
420	SB-972	11.0 - 12.5	11/18/09	FS																				
420	SB-973	14.0 - 15.0	11/18/09	FS																				
600	SB-1007	1.0 - 2.0	09/20/10	FS	0.36 U	4.2	0.65 J	0.36 U																0.99 U
600	SS-04	1.0 - 2.0	09/20/10	FS	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U														1 U	
600	SS-05	1.0 - 2.0	09/20/10	FS	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U														1 U	
600	SS-06	1.0 - 2.0	09/20/10	FS	0.018 U	0.16	0.021 J	0.018 U															1.1 U	
600	SS-07	1.0 - 2.0	09/20/10	FS	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U														1 U	
600	SS-08	1.0 - 2.0	09/20/10	FS	0.017 U	0.1 J	0.034 J	0.017 U															1 U	
600	SS-09	1.0 - 2.0	09/20/10	FS	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U														1 U	
600	SS-10	1.0 - 2.0	09/20/10	FS	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U														1 U	
600	SS-11	1.0 - 2.0	09/20/10	FS	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U														1 U	
805	SB-966	11.0 - 16.0	11/11/09	FS																				1 U
805	SB-966	13.0 - 15.0	11/11/09	FS																				1.1 U
805	SB-967	13.0 - 15.0	11/12/09	FS																				1 U
805	SB-968	12.0 - 13.5	11/12/09	FS																				1 U
805	SB-970	12.0 - 15.0	11/11/09	FD																				1 U
805	SB-970	12.0 - 15.0	11/11/09	FS																				1.1 U
820/895	SB-978	12.0 - 15.0	11/20/09	FS																				1 U
820/895	SB-979	12.0 - 15.0	11/20/09	FS																				1.1 U
820/895	SB-980	12.0 - 15.0	11/18/09	FS																				0.89 U
820/895	SB-981	12.0 - 15.0	11/19/09	FS																				1.1 U
820/895	SB-982	11.0 - 15.0	11/13/09	FS																				1.1 U
820/895	SB-983	12.0 - 15.0	11/13/09	FS																				1 U
820/895	SB-984	12.0 - 15.0	11/19/09	FD																				0.9 U
820/895	SB-984	12.0 - 15.0	11/19/09	FS																				0.93 U
820/895	SB-985	12.0 - 15.0	11/20/09	FS																				1 U
825	SB-1008	13.0 - 15.0	09/24/10	FS																				

Table 4B
SOIL ANALYTICAL RESULTS SUMMARY
 2008 thru 2010

Chem Class		SVOCs	SVOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs			
		n-Butanol	Pyrene	1,1-Dichloro ethane	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	1,4-Dichloro benzene	2-Butanone	2-Chloro toluene	4-iso-Propyl toluene	4-Methyl-2-pentanone	Acetone	Aceto nitrile	Acrolein	Benzene	Bromo methane	
Parameter		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total		
IC/DEC		2500 ^p	2500	1000	1000 ^p	1000 ^p	240	1000	1000 ^p	1000 ^p	1000	500 ^p	10 ^p	200	1000 ^p		
AOC #	Location ID	Depth	Sample Date	Qc Code													
1005	TP-103	7.0 - 7.0	12/29/08	FS	10 U	0.28 U	0.0063 U	0.0063 U	0.0063 U	0.013 U	0.0063 U	0.0063 U	0.025 U	0.063 U	0.0063 U	0.0063 U	
1005	TP-104	3.0 - 3.0	12/29/08	FS	10 U	0.27 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.022 U	0.054 U	0.0054 U	0.0054 U	
105	SB-986	8.0 - 10.0	09/16/10	FS	0.28 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.011 U	0.0053 U	0.0053 U	0.021 UJ	0.053 U	0.0053 U	0.0053 U	
105	SB-987	8.5 - 10.0	09/16/10	FS	0.99 U	0.28 U	0.005 U	0.005 U	0.005 U	0.01 UJ	0.005 U	0.005 U	0.02 UJ	0.05 U	0.005 U	0.005 U	
105	SB-987	13.0 - 15.0	09/16/10	FS	0.28 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.011 UJ	0.0053 U	0.0053 U	0.021 UJ	0.053 U	0.0053 U	0.0053 U	
105	SB-988	8.0 - 10.0	09/16/10	FS	0.28 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UJ	0.005 U	0.005 U	0.02 UJ	0.05 U	0.005 U	0.005 U	
105	SB-988	13.0 - 15.0	09/16/10	FS	0.28 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UJ	0.005 U	0.005 U	0.02 UJ	0.05 U	0.005 U	0.005 U	
105	SB-989	8.0 - 10.0	09/17/10	FS	0.28 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.01 UJ	0.0052 U	0.0052 U	0.021 UJ	0.052 U	0.0052 U	0.0052 U	
105	SB-990	8.0 - 9.0	09/17/10	FS	1 U	0.28 U	0.0052 U	0.0052 U	0.0052 U	0.01 UJ	0.0052 U	0.0052 U	0.021 UJ	0.052 U	0.0052 U	0.0052 U	
105	SB-990	13.0 - 15.0	09/17/10	FS	0.28 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.01 UJ	0.0052 U	0.0052 U	0.021 UJ	0.052 U	0.0052 U	0.0052 U	
105	SB-991	8.0 - 10.0	09/17/10	FS	0.27 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 UJ	0.0054 U	0.0054 U	0.022 UJ	0.054 U	0.0054 U	0.0054 U	
105	TP-108	9.0 - 9.0	12/15/08	FD													
105	TP-108	9.0 - 9.0	12/15/08	FS	9.9 U	0.29 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.02 U	0.051 U	0.02 U	0.0051 U	
105	TP-109	7.0 - 7.0	12/18/08	FS	9.9 U	0.28 U	0.0053 U	0.0053 U	0.0053 U	0.011 U	0.0053 U	0.0053 U	0.021 U	0.053 U	0.021 U	0.0053 U	
1100	SB-974	5.0 - 7.0	11/24/09	FS													
115	SB-1000	9.0 - 10.0	09/22/10	FS													
115	SB-1001	13.0 - 15.0	09/21/10	FS													
115	SB-1002	13.0 - 15.0	09/17/10	FS	1.1 U	0.28 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.01 UJ	0.0052 U	0.0052 U	0.021 UJ	0.052 U	0.0052 U	0.0052 U
115	SB-1003	13.0 - 14.0	09/21/10	FS													
115	SB-992	8.0 - 10.0	09/23/10	FD													
115	SB-992	8.0 - 10.0	09/23/10	FS													
115	SB-993	3.0 - 5.0	09/23/10	FS													
115	SB-993	8.0 - 10.0	09/23/10	FD	0.92 U	0.28 U	0.0052 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.021 U	0.052 U	0.0052 U	0.0052 U	
115	SB-993	8.0 - 10.0	09/23/10	FS	0.97 U	0.27 U	0.005 U	0.005 U	0.005 U	0.01 U	0.005 U	0.005 U	0.02 U	0.05 U	0.005 U	0.005 U	
115	SB-994	8.0 - 10.0	09/24/10	FS													
115	SB-995	6.0 - 8.0	09/22/10	FS													
115	SB-996	4.0 - 5.0	09/22/10	FS													
115	SB-996	6.0 - 8.0	09/22/10	FS	1 U	0.28 U	0.0052 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.021 U	0.052 U	0.0052 U	0.0052 U	
115	SB-997	6.0 - 10.0	09/22/10	FS													
115	SB-998	9.0 - 10.0	09/21/10	FS													
115	SB-999	4.0 - 5.0	09/21/10	FS													
115	SB-999	8.0 - 10.0	09/21/10	FS	1 U	0.28 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.021 U	0.051 U	0.0051 U	0.0051 U
115	TP-105	11.0 - 11.0	12/11/08	FS	9.9 U	0.29 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.021 U	0.054 U	0.0054 U	0.0054 U
115	TP-106	14.0 - 14.0	12/15/08	FS	9.9 U	0.27 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0088 U	0.0044 U	0.0044 U	0.018 U	0.044 U	0.018 U	0.0044 U
115	TP-107	8.0 - 8.0	12/12/08	FD	11 U	0.3 U	0.0052 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.021 U	0.052 U	0.021 U	0.0052 U	
115	TP-107	8.0 - 8.0	12/12/08	FS	10 U	0.29 U	0.0057 U	0.0057 U	0.0057 U	0.0057 UJ	0.011 U	0.0057 U	0.0057 U	0.023 U	0.057 U	0.023 U	0.0057 U
1320	SB-975	1.0 - 2.0	11/24/09	FS													
1320	SB-976	1.0 - 3.0	11/24/09	FS													
1320	SB-977	0.5 - 1.0	11/24/09	FS													
1330	SS-01	0.0 - 0.5	11/13/09	FS													
1330	SS-02	0.0 - 0.5	11/13/09	FS													
1330	SS-03	0.0 - 0.5	11/13/09	FS													
215C	SB-1004	8.0 - 11.0	09/24/10	FS	5.1		0.005 U	0.005 U	0.005 U	0.005 U	0.01 UJ	0.005 U	0.005 U	0.02 UJ	0.05 U	0.05 U	0.005 U
215C	SB-1005	11.0 - 13.0	09/24/10	FS	0.96 U		0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0098 UJ	0.0049 U	0.0049 U	0.02 UJ	0.049 U	0.049 U	0.0049 U
215C	SB-1006	11.0 - 13.0	09/24/10	FD	0.99 U		0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.011 UJ	0.0053 U	0.0053 U	0.021 UJ	0.053 U	0.053 U	0.0053 U
215C	SB-1006	11.0 - 13.0	09/24/10	FS	1 U		0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0098 UJ	0.0049 U	0.0049 U	0.02 UJ	0.049 U	0.049 U	0.0049 U
215C	TP-120A	9.0 - 10.5	02/05/10	FS	10 U		0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0059 U	0.036 J	0.059 U	0.059 U	0.0059 U
215C	TP-120B	9.0 - 10.5	02/05/10	FS	12 U		0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.12 J	0.057 U	0.057 U	0.0057 U

Table 4B
SOIL ANALYTICAL RESULTS SUMMARY
 2008 thru 2010

Chem Class			SVOCs	SVOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	
			n-Butanol	Pyrene	1,1-Dichloro ethane	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	1,4-Dichloro benzene	2-Butanone	2-Chloro toluene	4-iso-Propyl toluene	4-Methyl-2-pentanone	Acetone	Aceto nitrile	Acrolein	Benzene	Bromo methane
			Parameter Fraction	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
AOC #	Location ID	Depth	Sample Date	Qc Code	2500 ^p	2500	1000	1000 ^p	240	1000	1000 ^p	1000	1000	500 ^p	10 ^p	200	1000 ^p
251	TP-101	9.0 - 9.0	12/23/08	FS	9.3 U												
420	SB-963	11.0 - 16.0	12/15/08	FS													
420	SB-964	5.0 - 10.0	12/15/08	FS													
420	SB-964	14.0 - 19.0	12/15/08	FS													
420	SB-969	13.0 - 15.0	11/12/09	FS	1 U												
420	SB-971	13.0 - 13.5	11/18/09	FS													
420	SB-972	11.0 - 12.5	11/18/09	FS													
420	SB-973	14.0 - 15.0	11/18/09	FS													
600	SB-1007	1.0 - 2.0	09/20/10	FS	0.99 U												
600	SS-04	1.0 - 2.0	09/20/10	FS	1 U												
600	SS-05	1.0 - 2.0	09/20/10	FS	1 U												
600	SS-06	1.0 - 2.0	09/20/10	FS	1.1 U												
600	SS-07	1.0 - 2.0	09/20/10	FS	1 U												
600	SS-08	1.0 - 2.0	09/20/10	FS	1 U												
600	SS-09	1.0 - 2.0	09/20/10	FS	1 U												
600	SS-10	1.0 - 2.0	09/20/10	FS	1 U												
600	SS-11	1.0 - 2.0	09/20/10	FS	1 U												
805	SB-966	11.0 - 16.0	11/11/09	FS	1 U												
805	SB-966	13.0 - 15.0	11/11/09	FS	1.1 U												
805	SB-967	13.0 - 15.0	11/12/09	FS	1 U												
805	SB-968	12.0 - 13.5	11/12/09	FS	1 U												
805	SB-970	12.0 - 15.0	11/11/09	FD	1 U												
805	SB-970	12.0 - 15.0	11/11/09	FS	1.1 U												
820/895	SB-978	12.0 - 15.0	11/20/09	FS	1 U												
820/895	SB-979	12.0 - 15.0	11/20/09	FS	1.1 U												
820/895	SB-980	12.0 - 15.0	11/18/09	FS	0.89 U												
820/895	SB-981	12.0 - 15.0	11/19/09	FS	1.1 U												
820/895	SB-982	11.0 - 15.0	11/13/09	FS	1.1 U												
820/895	SB-983	12.0 - 15.0	11/13/09	FS	1 U												
820/895	SB-984	12.0 - 15.0	11/19/09	FD	0.9 U												
820/895	SB-984	12.0 - 15.0	11/19/09	FS	0.93 U												
820/895	SB-985	12.0 - 15.0	11/20/09	FS	1 U												
825	SB-1008	13.0 - 15.0	09/24/10	FS													

Table 4B
SOIL ANALYTICAL RESULTS SUMMARY
2008 thru 2010

Chem Class	Parameter	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs	VOCs
		sec-Butylbenzene	Styrene	Tetrachloro ethene	Toluene	Trichloro fluoro methane	Vinyl chloride	Xylene, o
		Fraction	Total	Total	Total	Total	Total	Total
		IC/DEC	1000 ^b	1000	110	1000	1000 ^b	3
AOC #	Location ID	Depth	Sample Date	Qc Code				
1005	TP-103	7.0 - 7.0	12/29/08	FS	0.0063 U	0.0063 U	0.0063 U	0.0063 U
1005	TP-104	3.0 - 3.0	12/29/08	FS	0.0054 U	0.0054 U	0.0054 U	0.0054 U
105	SB-986	8.0 - 10.0	09/16/10	FS	0.0053 U	0.0053 U	0.0053 U	0.0053 U
105	SB-986	13.0 - 15.0	09/16/10	FS	0.005 U	0.005 U	0.005 U	0.005 U
105	SB-987	8.5 - 10.0	09/16/10	FS	0.005 U	0.018 J	0.005 U	0.13 J
105	SB-987	13.0 - 15.0	09/16/10	FS	0.0053 U	0.0053 U	0.0053 U	0.0053 U
105	SB-988	8.0 - 10.0	09/16/10	FS	0.005 U	0.005 U	0.005 U	0.005 U
105	SB-988	13.0 - 15.0	09/16/10	FS	0.005 U	0.005 U	0.005 U	0.005 U
105	SB-989	8.0 - 10.0	09/17/10	FS	0.0052 U	0.0052 U	0.0052 U	0.0052 U
105	SB-990	8.0 - 9.0	09/17/10	FS	0.0052 U	0.0052 U	0.0052 U	0.0052 U
105	SB-990	13.0 - 15.0	09/17/10	FS	0.0052 U	0.0052 U	0.0052 U	0.0052 U
105	SB-991	8.0 - 10.0	09/17/10	FS	0.0054 U	0.0054 U	0.0054 U	0.0054 U
105	TP-108	9.0 - 9.0	12/15/08	FD				
105	TP-108	9.0 - 9.0	12/15/08	FS	0.0051 U	0.0051 U	0.0022 J	0.0051 U
105	TP-109	7.0 - 7.0	12/18/08	FS	0.0053 U	0.0053 U	0.0053 U	0.0053 U
1100	SB-974	5.0 - 7.0	11/24/09	FS				
115	SB-1000	9.0 - 10.0	09/22/10	FS	0.0051 U	0.0051 U	0.0051 U	0.0051 U
115	SB-1001	13.0 - 15.0	09/21/10	FS	0.0053 U	0.0053 U	0.0053 U	0.0053 U
115	SB-1002	13.0 - 15.0	09/17/10	FS	0.0052 U	0.0052 U	0.0052 U	0.0052 U
115	SB-1003	13.0 - 14.0	09/21/10	FS	0.0052 U	0.0052 U	0.0052 U	0.0052 U
115	SB-992	8.0 - 10.0	09/23/10	FD	0.0051 U	0.0051 U	0.0051 U	0.0051 U
115	SB-992	8.0 - 10.0	09/23/10	FS	0.0047 U	0.0047 U	0.0047 U	0.0047 U
115	SB-993	3.0 - 5.0	09/23/10	FS	0.0053 U	0.0053 U	0.0053 U	0.0053 U
115	SB-993	8.0 - 10.0	09/23/10	FD	0.0052 U	0.0052 U	0.0052 U	0.0052 U
115	SB-993	8.0 - 10.0	09/23/10	FS	0.005 U	0.005 U	0.005 U	0.005 U
115	SB-994	8.0 - 10.0	09/24/10	FS	0.0054 U	0.0054 U	0.0054 U	0.0054 U
115	SB-995	6.0 - 8.0	09/22/10	FS	0.0051 U	0.0051 U	0.0051 U	0.0051 U
115	SB-996	4.0 - 5.0	09/22/10	FS	0.0054 U	0.0054 U	0.0054 U	0.0054 U
115	SB-996	6.0 - 8.0	09/22/10	FS	0.0052 U	0.0052 U	0.0052 U	0.0052 U
115	SB-997	6.0 - 10.0	09/22/10	FS	0.0049 U	0.0049 U	0.0049 U	0.0049 U
115	SB-998	9.0 - 10.0	09/21/10	FS	0.0054 U	0.0054 U	0.0054 U	0.0054 U
115	SB-999	4.0 - 5.0	09/21/10	FS	0.0049 U	0.0049 U	0.0049 U	0.0049 U
115	SB-999	8.0 - 10.0	09/21/10	FS	0.0051 U	0.0051 U	0.0051 U	0.0051 U
115	TP-105	11.0 - 11.0	12/11/08	FS	0.0054 U	0.0054 U	0.0054 U	0.0054 U
115	TP-106	14.0 - 14.0	12/15/08	FS	0.0044 U	0.0044 U	0.0044 U	0.0044 U
115	TP-107	8.0 - 8.0	12/12/08	FD	0.0052 U	0.0052 U	0.0052 U	0.0052 U
115	TP-107	8.0 - 8.0	12/12/08	FS	0.0057 U	0.0057 U	0.0057 U	0.0057 U
1320	SB-975	1.0 - 2.0	11/24/09	FS				
1320	SB-976	1.0 - 3.0	11/24/09	FS				
1320	SB-977	0.5 - 1.0	11/24/09	FS				
1330	SS-01	0.0 - 0.5	11/13/09	FS				
1330	SS-02	0.0 - 0.5	11/13/09	FS				
1330	SS-03	0.0 - 0.5	11/13/09	FS				
215C	SB-1004	8.0 - 11.0	09/24/10	FS	0.005 U	0.005 U	0.005 U	0.005 U
215C	SB-1005	11.0 - 13.0	09/24/10	FS	0.0049 U	0.0049 U	0.0049 U	0.0049 U
215C	SB-1006	11.0 - 13.0	09/24/10	FD	0.0053 U	0.0053 U	0.0053 UJ	0.0053 UJ
215C	SB-1006	11.0 - 13.0	09/24/10	FS	0.0049 UJ	0.0049 UJ	0.0049 UJ	0.0049 UJ
215C	TP-120A	9.0 - 10.5	02/05/10	FS	0.0059 U	0.0059 U	0.0059 U	0.0059 U
215C	TP-120B	9.0 - 10.5	02/05/10	FS	0.0057 U	0.0057 U	0.036	0.0057 U
								1
								1.06

TABLE 5
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
2010

AOC #/Area	Location	Sample Date	QC Code	Chem Class		Metals	Metals	Metals	Metals	Metals	Metals	Metals	SVOCs
				Parameter	Fraction	Antimony	Barium	Chromium	Lead	Nickel	Vanadium	Zinc	Bis(2-Ethyl hexyl)phthalate
						Total	Total	Total	Total	Total	Total	Total	Total
			WQS			0.0056	NC	0.1	0.015	0.61	NC	7.4	0.0012
AOC 230 - Unnamed Stream	SW-18	10/07/10	FS			0.004 U	0.031	0.005 U	0.0025 U	0.0025 U	0.0025 U	0.025 U	0.0005 U
AOC 230 - Unnamed Stream	SW-19	10/07/10	FS			0.004 U	0.055	0.005 U	0.0025 U	0.0025 U	0.0025 U	0.025 U	0.0005 U
AOC 230 - Unnamed Stream	SW-20	10/07/10	FD			0.004 U	0.069	0.005 U	0.0025 U	0.0025 U	0.0025 U	0.025 U	0.0005 U
AOC 230 - Unnamed Stream	SW-20	10/07/10	FS			0.004 U	0.066	0.005 U	0.0025 U	0.0025 U	0.0025 U	0.025 U	0.0005 U
AOC 230 - Unnamed Stream	SW-21	10/07/10	FS			0.004 U	0.077	0.005 U	0.0025 U	0.0025 U	0.0025 U	0.025 U	0.0005 U
AOC 230 - Unnamed Stream	SW-22	10/06/10	FS			0.0043	0.055	0.005 U	0.0025 U	0.0025 U	0.0028	0.025 U	0.00071 J
AOC 230 - Unnamed Stream	SW-23	10/06/10	FS			0.004 U	0.096	0.0057	0.0035	0.0036	0.0051	0.025	0.00081 J
AOC 230 - Unnamed Stream	SW-24	10/06/10	FS			0.004 U	0.077	0.005 U	0.0025 U	0.0025 U	0.0025 U	0.025 U	0.00058 J

Notes:

Results provided in mg/L only for constituents detected in at least one sample

"U" qualifier = non-detect

"J" qualifier = estimated

WQS = Connecticut Water Quality Standard for the Consumption of Water and Fish.

0.1⁵ = Hexavalent chromium criterion used as surrogate for total chromium.

NC = No Criteria

Shading indicates value exceeds criteria

FS = Field Sample; FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

TABLE 6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS (revised)
2010

AOC # - Description	Location	Depth	Sample Date	QC Code	Chem Class		EPH	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
					Parameter	Fraction	Extractable Petroleum Hydrocarbons,	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
							Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
120 - Southern Effluent Ditch	SD-10	1.0 - 2.0	11/17/09	FS	47	0.9 U	1.7	52 J	0.56 U	0.56 U	13	3.4	7.6 J	12		
120 - Southern Effluent Ditch	SD-11	0.0 - 2.0	11/16/09	FS	3600 J	2.2	3.4	110 J	0.83 U	67	340	5.1	140 J	51		
120 - Southern Effluent Ditch	SD-12	0.5 - 2.0	11/16/09	FS	29	0.78 U	0.71	40 J	0.49 U	0.71	13	3.1	9.9 J	5.9		
120 - Southern Effluent Ditch	SD-14	0.8 - 1.6	11/17/09	FS												
120 - Southern Effluent Ditch	SD-16	0.0 - 0.5	10/08/10	FS	35	0.94 U	1.2	77	0.59 U	0.59 U	24	4.8	9.4	5.2		
120 - Southern Effluent Ditch	SD-16	1.0 - 2.0	10/08/10	FS												
120 - Southern Effluent Ditch	SD-17	0.0 - 0.5	10/08/10	FS												
120 - Southern Effluent Ditch	SD005	0.5 - 1.0	09/17/09	FS	21											
120 - Southern Effluent Ditch	SD005	1.5 - 2.0	09/17/09	FS	15 U											
120 - Southern Effluent Ditch	SD006	0.7 - 1.6	09/17/09	FD	96 J											
120 - Southern Effluent Ditch	SD006	0.7 - 1.6	09/17/09	FS	18 J											
120 - Southern Effluent Ditch	SD006	1.6 - 2.5	09/17/09	FS	14 U											
120 - Southern Effluent Ditch	SD007	0.2 - 1.1	09/16/09	FS	31											
120 - Southern Effluent Ditch	SD008	0.0 - 0.9	09/16/09	FS	32											
120 - Southern Effluent Ditch	SD008	0.9 - 1.2	09/16/09	FS	14 U											
230 - Unnamed Stream	SD-18	0.0 - 0.5	10/07/10	FS		1.3 UJ	5.3	290 J	0.79 U	0.79 U	11	8.7	21	38		
230 - Unnamed Stream	SD-19	0.0 - 0.5	10/07/10	FS		1 UJ	2.2	54 J	0.66 U	3.3	66	4	28	18		
230 - Unnamed Stream	SD-19	1.0 - 2.0	10/07/10	FS		1 UJ	1.7	49 J	0.63 U	0.63 U	12	5.6	12	5		
230 - Unnamed Stream	SD-20	0.0 - 0.5	10/07/10	FS		1.2 UJ	1.8	71 J	0.73 U	2.7	19	2.9	9.6	7.4		
230 - Unnamed Stream	SD-21	0.0 - 0.5	10/07/10	FS		2.3 UJ	10	430 J	1.4 U	11	95	11	62	36		
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FD		1.1 UJ	1.9	66 J	0.71 U	0.71 U	18	8.3	11	6.3		
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FS		1.1 UJ	2.3	80 J	0.7 U	19	5.7	12	6.5			
230 - Unnamed Stream	SD-23	0.0 - 0.5	10/06/10	FS		0.83 UJ	0.81	59 J	0.52 U	0.52 U	7.8	2.6	3.7	3.6		
230 - Unnamed Stream	SD-23	1.0 - 3.0	10/06/10	FS		0.74 UJ	0.88	77 J	0.46 U	0.65	13	6.1	13	4		
230 - Unnamed Stream	SD-24	0.0 - 0.5	10/06/10	FS		0.95 UJ	0.69	41 J	0.6 U	1.3	9.9	2	12	7.6		
230 - Unnamed Stream	SD-24	1.0 - 3.0	10/06/10	FS		0.99 UJ	1.3	80 J	0.62 U	0.62 U	9.9	3.7	6.9	3.9		

TABLE 6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS (revised)
2010

AOC # - Description	Location	Depth	Sample Date	QC Code	Chem Class		Metals		Metals		Metals		Metals		Metals		ORG	PCBs	PCBs	PCBs
					Parameter Fraction	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Total Organic Carbon	Total PCBs	Aroclor-1242	Aroclor-1248					
						Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total				
120 - Southern Effluent Ditch	SD-10	1.0 - 2.0	11/17/09	FS		0.064 U	7.6	1.1 U	0.56 U	27 J	27 J		0.198	0.16	0.021 U					
120 - Southern Effluent Ditch	SD-11	0.0 - 2.0	11/16/09	FS		2.1	99	7.1	8.6	110 J	260 J		4.6	0.34 U	4.6					
120 - Southern Effluent Ditch	SD-12	0.5 - 2.0	11/16/09	FS		0.063 U	8.4	0.98 U	0.49 U	18 J	29 J		0.19	0.022 U	0.19					
120 - Southern Effluent Ditch	SD-14	0.8 - 1.6	11/17/09	FS									0.52	0.52	0.041 U					
120 - Southern Effluent Ditch	SD-16	0.0 - 0.5	10/08/10	FS		0.055 U	7.8	1.2 U	0.59 U	19	28	11000	0.186	0.021 U	0.075 J					
120 - Southern Effluent Ditch	SD-16	1.0 - 2.0	10/08/10	FS		0.056 U	13	1.2 U	0.58 U	32	44		0.198	0.02 U	0.15					
120 - Southern Effluent Ditch	SD-17	0.0 - 0.5	10/08/10	FS		0.14	30	2.1	2.4	42	130	54000	0.256	0.035 U	0.077 J					
120 - Southern Effluent Ditch	SD005	0.5 - 1.0	09/17/09	FS									2.2	2.2 J	0.41 U					
120 - Southern Effluent Ditch	SD005	1.5 - 2.0	09/17/09	FS									U	0.021 U	0.021 U					
120 - Southern Effluent Ditch	SD006	0.7 - 1.6	09/17/09	FD									0.51	0.51 J	0.039 U					
120 - Southern Effluent Ditch	SD006	0.7 - 1.6	09/17/09	FS									0.14	0.14 J	0.02 U					
120 - Southern Effluent Ditch	SD006	1.6 - 2.5	09/17/09	FS									U	0.021 U	0.021 U					
120 - Southern Effluent Ditch	SD007	0.2 - 1.1	09/16/09	FS									6	6	1 U					
120 - Southern Effluent Ditch	SD008	0.0 - 0.9	09/16/09	FS									4.5	4.5	1 U					
120 - Southern Effluent Ditch	SD008	0.9 - 1.2	09/16/09	FS									U	0.021 U	0.021 U					
230 - Unnamed Stream	SD-18	0.0 - 0.5	10/07/10	FS		0.076 U	20	1.6 U	0.79 U	22	190	68000	0.13	0.029 U	0.094					
230 - Unnamed Stream	SD-19	0.0 - 0.5	10/07/10	FS		0.069 U	12	1.3 U	0.66 U	23	130	20000	1.34	0.13 U	1.1 J					
230 - Unnamed Stream	SD-19	1.0 - 2.0	10/07/10	FS		0.06 U	9.8	1.3 U	0.63 U	27	30		U	0.022 U	0.022 U					
230 - Unnamed Stream	SD-20	0.0 - 0.5	10/07/10	FS		0.068 U	8.5	1.5 U	0.73 U	14	76	16000	2.4	0.25 U	1.7 J					
230 - Unnamed Stream	SD-21	0.0 - 0.5	10/07/10	FS		0.16 U	31	3.3	1.4 U	120	290	83000	0.314	0.055 U	0.22 J					
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FD		0.071 U	13	1.4 U	0.73 U	33	38	25000	U	0.025 U	0.025 U					
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FS		0.079 U	12	1.4	0.7 U	44	43	28000	U	0.027 U	0.027 U					
230 - Unnamed Stream	SD-23	0.0 - 0.5	10/06/10	FS		0.06 U	6.3	1 U	0.52 U	11	28	4600	U	0.02 U	0.02 U					
230 - Unnamed Stream	SD-23	1.0 - 3.0	10/06/10	FS		0.054 U	11	0.93 U	0.46 U	28	52		U	0.02 U	0.02 U					
230 - Unnamed Stream	SD-24	0.0 - 0.5	10/06/10	FS		0.066 U	6.1	1.2 U	0.6 U	12	47	7400	0.103	0.024 U	0.068					
230 - Unnamed Stream	SD-24	1.0 - 3.0	10/06/10	FS		0.061 U	6.6	1.2 U	0.62 U	20	24		U	0.022 U	0.022 U					

TABLE 6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS (revised)
2010

Chem Class	PCBs		PCBs		SVOCs		SVOCs		SVOCs		SVOCs		SVOCs		
	Aroclor-1254	Aroclor-1260	2-Methyl naphthalene	Benz(ghi) perylene	Bis(2-Ethyl hexyl)phthalate	Di-n-butyl phthalate	Fluoranthene	Indeno(1,2,3-cd)pyrene	n-Butanol	Phenanthrene					
Parameter Fraction	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
AOC # - Description	Location	Depth	Sample Date	QC Code											
120 - Southern Effluent Ditch	SD-10	1.0 - 2.0	11/17/09	FS	0.038 J	0.021 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.2 U	0.34 U	
120 - Southern Effluent Ditch	SD-11	0.0 - 2.0	11/16/09	FS	0.34 U	0.34 U	1.4	1.1 U	6.9	6.4	1.1 U	1.1 U	4.1	1.1 U	
120 - Southern Effluent Ditch	SD-12	0.5 - 2.0	11/16/09	FS	0.022 U	0.022 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.1 U	0.36 U	
120 - Southern Effluent Ditch	SD-14	0.8 - 1.6	11/17/09	FS	0.041 U	0.041 U									
120 - Southern Effluent Ditch	SD-16	0.0 - 0.5	10/08/10	FS	0.085	0.026	0.33 U	0.33 U	1.1	0.33 U	0.33 U	0.33 U	1.2 U	0.33 U	
120 - Southern Effluent Ditch	SD-16	1.0 - 2.0	10/08/10	FS	0.048	0.02 U	0.32 U	0.32 U	0.87	0.38	0.32 U	0.32 U	0.32 U	0.32 U	
120 - Southern Effluent Ditch	SD-17	0.0 - 0.5	10/08/10	FS	0.14 J	0.039	0.58 U	0.58 U	1.5	0.58 U	0.61	0.58 U	0.58 U	0.58 U	
120 - Southern Effluent Ditch	SD005	0.5 - 1.0	09/17/09	FS	0.41 U	0.41 U									
120 - Southern Effluent Ditch	SD005	1.5 - 2.0	09/17/09	FS	0.021 U	0.021 U									
120 - Southern Effluent Ditch	SD005	0.7 - 1.6	09/17/09	FD	0.039 U	0.039 U									
120 - Southern Effluent Ditch	SD006	0.7 - 1.6	09/17/09	FS	0.02 U	0.02 U									
120 - Southern Effluent Ditch	SD006	1.6 - 2.5	09/17/09	FS	0.021 U	0.021 U									
120 - Southern Effluent Ditch	SD007	0.2 - 1.1	09/16/09	FS	1 U	1 U									
120 - Southern Effluent Ditch	SD008	0.0 - 0.9	09/16/09	FS	1 U	1 U									
120 - Southern Effluent Ditch	SD008	0.9 - 1.2	09/16/09	FS	0.021 U	0.021 U									
230 - Unnamed Stream	SD-18	0.0 - 0.5	10/07/10	FS	0.036	0.029 U	0.46 U	0.69	0.46 U	0.46 U	0.46 U	0.65		0.46 U	
230 - Unnamed Stream	SD-19	0.0 - 0.5	10/07/10	FS	0.24 J	0.13 U	0.83 U	0.83 UJ	220	0.83 U	0.83 U	0.83 UJ		0.83 U	
230 - Unnamed Stream	SD-19	1.0 - 2.0	10/07/10	FS	0.022 U	0.022 U	0.37 U	0.37 UJ	0.37 U	0.37 U	0.37 U	0.37 UJ		0.37 U	
230 - Unnamed Stream	SD-20	0.0 - 0.5	10/07/10	FS	0.7 J	0.25 U	0.8 U	0.8 UJ	2.7	0.8 U	1.1	0.8 UJ		0.87	
230 - Unnamed Stream	SD-21	0.0 - 0.5	10/07/10	FS	0.094	0.055 U	1.8 U	1.8 UJ	350	1.8 U	1.8 UJ	1.8 UJ		1.8 UJ	
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FD	0.025 U	0.025 U	0.4 U	0.4 UJ	0.4 U	0.4 U	0.4 U	0.4 UJ		0.4 U	
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FS	0.027 U	0.027 U	0.45 U	0.45 U	0.56 J	0.45 U	0.45 U	0.45 U		0.45 U	
230 - Unnamed Stream	SD-23	0.0 - 0.5	10/06/10	FS	0.02 U	0.02 U	0.33 U	0.33 U	0.73	0.33 U	0.33 U	0.33 U		0.33 U	
230 - Unnamed Stream	SD-23	1.0 - 3.0	10/06/10	FS	0.02 U	0.02 U	0.33 U	0.33 U	0.56	0.33 U	0.33 U	0.33 U		0.33 U	
230 - Unnamed Stream	SD-24	0.0 - 0.5	10/06/10	FS	0.035 J	0.024 U	0.4 U	0.49	37	0.4 U	0.4 U	0.48		0.4 U	
230 - Unnamed Stream	SD-24	1.0 - 3.0	10/06/10	FS	0.022 U	0.022 U	0.37 U	0.37 U	1.1	0.37 U	0.37 U	0.37 U		0.37 U	

TABLE 6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS (revised)
2010

AOC # - Description	Location	Depth	Sample Date	QC Code	Chem Class		SVOCs		VOCs		VOCs		VOCs		VOCs		VOCs		VOCs	
					Parameter Fraction		Pyrene	1,2,4-Trimethyl benzene	2-Butanone	Acetone	Carbon disulfide	Formaldehyde	Isopropyl benzene	Naphthalene (8260)	Naphthalene (8270)	Xylene, o	Xylenes (m&p)			
					Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
120 - Southern Effluent Ditch	SD-10	1.0 - 2.0	11/17/09	FS	0.34 U	0.0055 UJ	0.011 UJ	0.038 J	0.0055 UJ	1.3 U	0.0055 UJ	0.34 U	0.0055 UJ	0.0055 UJ	0.34 U	0.0055 UJ	0.0055 UJ	0.34 U	0.0055 UJ	
120 - Southern Effluent Ditch	SD-11	0.0 - 2.0	11/16/09	FS	1.1 U	0.025 J	0.12 J	0.29 J	0.013 UJ	2 U	0.04 J	4	0.014 J	0.047 J						
120 - Southern Effluent Ditch	SD-12	0.5 - 2.0	11/16/09	FS	0.36 U	0.0057 UJ	0.011 UJ	0.026 J	0.0057 UJ	1.4 U	0.0057 UJ	0.36 U	0.0057 UJ	0.0057 UJ	0.36 U	0.0057 UJ	0.0057 UJ	0.36 U	0.0057 UJ	0.0057 UJ
120 - Southern Effluent Ditch	SD-14	0.8 - 1.6	11/17/09	FS																
120 - Southern Effluent Ditch	SD-16	0.0 - 0.5	10/08/10	FS	0.33 U	0.0062 U	0.012 UJ	0.025 UJ	0.0062 U	1.3 U	0.0062 U	0.33 U	0.0062 U	0.0062 U	0.33 U	0.0062 U	0.0062 U	0.33 U	0.0062 U	0.0062 U
120 - Southern Effluent Ditch	SD-16	1.0 - 2.0	10/08/10	FS	0.32 U	0.006 U	0.012 UJ	0.024 UJ	0.006 U	1.2 U	0.006 U	0.32 U	0.006 U	0.006 U	0.32 U	0.006 U	0.006 U	0.32 U	0.006 U	0.006 U
120 - Southern Effluent Ditch	SD-17	0.0 - 0.5	10/08/10	FS	0.58 U	0.011 UJ	0.021 UJ	0.043 UJ	0.011 UJ	2.8 U	0.011 UJ	0.58 U	0.011 UJ	0.011 UJ	0.58 U	0.011 UJ	0.011 UJ	0.58 U	0.011 UJ	0.011 UJ
120 - Southern Effluent Ditch	SD005	0.5 - 1.0	09/17/09	FS																
120 - Southern Effluent Ditch	SD005	1.5 - 2.0	09/17/09	FS																
120 - Southern Effluent Ditch	SD006	0.7 - 1.6	09/17/09	FD																
120 - Southern Effluent Ditch	SD006	0.7 - 1.6	09/17/09	FS																
120 - Southern Effluent Ditch	SD006	1.6 - 2.5	09/17/09	FS																
120 - Southern Effluent Ditch	SD007	0.2 - 1.1	09/16/09	FS																
120 - Southern Effluent Ditch	SD008	0.0 - 0.9	09/16/09	FS																
120 - Southern Effluent Ditch	SD008	0.9 - 1.2	09/16/09	FS																
230 - Unnamed Stream	SD-18	0.0 - 0.5	10/07/10	FS	0.48	0.0084 U	0.017 U	0.034 UJ	0.0084 U	1.9 U	0.0084 U	0.46 U	0.0084 U	0.0084 U	0.46 U	0.0084 U	0.0084 U	0.46 U	0.0084 U	0.0084 U
230 - Unnamed Stream	SD-19	0.0 - 0.5	10/07/10	FS	0.83 UJ	0.0077 UJ	0.015 UJ	0.031 UJ	0.017 J	1.5 U	0.0077 UJ	0.83 U	0.0077 UJ	0.0077 UJ	0.83 U	0.0077 UJ	0.0077 UJ	0.83 U	0.0077 UJ	0.0077 UJ
230 - Unnamed Stream	SD-19	1.0 - 2.0	10/07/10	FS	0.37 U	0.0068 U	0.014 U	0.027 UJ	0.0068 U	1.3 U	0.0068 U	0.37 U	0.0068 U	0.0068 U	0.37 U	0.0068 U	0.0068 U	0.37 U	0.0068 U	0.0068 U
230 - Unnamed Stream	SD-20	0.0 - 0.5	10/07/10	FS	2.1	0.0074 U	0.015 U	0.03 UJ	0.0074 U	1.5 U	0.0074 U	0.8 U	0.0074 U	0.0074 U	0.8 U	0.0074 U	0.0074 U	0.8 U	0.0074 U	0.0074 U
230 - Unnamed Stream	SD-21	0.0 - 0.5	10/07/10	FS	1.8 UJ	0.016 UJ	0.033 UJ	0.066 UJ	0.016 UJ	2.8 U	0.016 UJ	1.8 U	0.016 UJ	0.016 UJ	1.8 U	0.016 UJ	0.016 UJ	1.8 U	0.016 UJ	0.016 UJ
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FD	0.4 U	0.0074 UJ	0.015 U	0.029 UJ	0.0074 U	1.5 U	0.0074 UJ	0.4 U	0.0074 UJ	0.0074 UJ	0.4 U	0.0074 UJ	0.0074 UJ	0.4 U	0.0074 UJ	0.0074 UJ
230 - Unnamed Stream	SD-22	0.0 - 0.5	10/07/10	FS	0.45 U	0.0083 U	0.017 UJ	0.033 J	0.0083 UJ	1.5 U	0.0083 UJ	0.45 U	0.0083 UJ	0.0083 UJ	0.45 U	0.0083 UJ	0.0083 UJ	0.45 U	0.0083 UJ	0.0083 UJ
230 - Unnamed Stream	SD-23	0.0 - 0.5	10/06/10	FS	0.33 U	0.0061 U	0.012 U	0.024 U	0.0061 U	1.2 U	0.0061 U	0.33 U	0.0061 U	0.0061 U	0.33 U	0.0061 U	0.0061 U	0.33 U	0.0061 U	0.0061 U
230 - Unnamed Stream	SD-23	1.0 - 3.0	10/06/10	FS	0.33 U	0.0061 U	0.012 U	0.024 U	0.0061 U	1.2 U	0.0061 U	0.33 U	0.0061 U	0.0061 U	0.33 U	0.0061 U	0.0061 U	0.33 U	0.0061 U	0.0061 U
230 - Unnamed Stream	SD-24	0.0 - 0.5	10/06/10	FS	0.4 U	0.0074 U	0.015 U	0.03 UJ	0.0074 U	1.5 U	0.0074 U	0.4 U	0.0074 U	0.0074 U	0.4 U	0.0074 U	0.0074 U	0.4 U	0.0074 U	0.0074 U
230 - Unnamed Stream	SD-24	1.0 - 3.0	10/06/10	FS	0.37 U	0.007 U	0.014 U	0.028 U	0.007 U	1.5 U	0.007 U	0.37 U	0.007 U	0.007 U	0.37 U	0.007 U	0.007 U	0.37 U	0.007 U	0.007 U

Notes:

Depths are in feet below ground surface

Results provided in mg/kg only for constituents detected in at least one sample from 0 to 2 ft. in depth

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

ATTACHMENT 3 REFERENCES

- ABB Environmental Services, Inc. (ABB-ES), 1995. "Property Transfer Act, Site Investigation and Form III Supplemental Information Report, Volume I".
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- AMEC Environment & Infrastructure (AMEC), 2013. REVISE D - Draft Screening Level Ecological Risk Assessment Report, Allnex USA Inc – formerly Cytec Industries Inc., Wallingford, Connecticut (USEPA ID # CTD001173467), September, 2013.
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ADDENDUM 1

SUPPLEMENTAL DATA TABLES FOR DATA COLLECTED 2010-2017 AOCS 120, 230, AND 420

ADDENDUM 1 / TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AOC 420 - Powder Dump
2016

Chem Class	Wet Chemistry	SVOCs		
Parameter	Ammonia	Bis(2-Ethylhexyl) phthalate		
Fraction	Total	Total		
Units	MG/L	MG/L		
CT-SWPROT	10 ^P	0.0059		
Location	Sample Date	Qc Code		
MW-PD1	07/14/16	FS	2.6	0.0048 U
MW-PD4	07/14/16	FS	0.95	0.0048 U
MW-PD5	07/14/16	FS	0.083	0.0052 U

Notes:

"U" qualifier = non-detect

MG/L = milligrams per liter

10^P = Proposed site-specific criterion

CT-SWPROT - Connecticut Surface Water Protection Criteria for Groundwater

FS = Field Sample

ADDENDUM 1 / TABLE 2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS - AOC 120
 2011 - 2017

Aoc Name	120	120	120	120
Location	SD-74	SD-75	SD-75	SD-8
Depth	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5
Sample ID	SD-74	SD-75	SD-75 DUP	SD-08
QC Code	FS	FS	FD	FS
Sample Date	11/3/2016	11/3/2016	11/3/2016	8/22/2011
Units				
	Result	Qual.	Result	Qual.
Metals	T	Antimony	MG/KG	R
Metals	T	Arsenic	MG/KG	56 J
Metals	T	Barium	MG/KG	1,900 J
Metals	T	Beryllium	MG/KG	R
Metals	T	Cadmium	MG/KG	6.7 J
Metals	T	Chromium	MG/KG	25 J
Metals	T	Chromium, Trivalent	MG/KG	25 J
Metals	T	Cobalt	MG/KG	69 J
Metals	T	Copper	MG/KG	47 J
Metals	T	Lead	MG/KG	18 J
Metals	T	Mercury	MG/KG	R
Metals	T	Nickel	MG/KG	50 J
Metals	T	Selenium	MG/KG	R
Metals	T	Silver	MG/KG	R
Metals	T	Vanadium	MG/KG	340 J
Metals	T	Zinc	MG/KG	92 J
ORG	T	Total Organic Carbon	MG/KG	110,000 J
PCBs	T	Aroclor-1242	MG/KG	29 J
PCBs	T	Aroclor-1248	MG/KG	R
PCBs	T	Aroclor-1254	MG/KG	R
PCBs	T	Aroclor-1260	MG/KG	R
PCBs	T	Total Aroclors	MG/KG	ND
SVOCs	T	2,6-Dinitrotoluene	MG/KG	R
SVOCs	T	Acenaphthene	MG/KG	R
SVOCs	T	Acenaphthylene	MG/KG	R
SVOCs	T	Anthracene	MG/KG	R
SVOCs	T	Benz(a)anthracene	MG/KG	R
SVOCs	T	Benz(a)pyrene	MG/KG	R
SVOCs	T	Benz(b)fluoranthene	MG/KG	R
SVOCs	T	Benz(ghi)perylene	MG/KG	R
SVOCs	T	Benz(k)fluoranthene	MG/KG	R
SVOCs	T	Bis(2-Ethylhexyl)phthalate	MG/KG	R
SVOCs	T	Carbazole	MG/KG	R
SVOCs	T	Chrysene	MG/KG	R
SVOCs	T	Di-n-butylphthalate	MG/KG	R
SVOCs	T	Di-n-octylphthalate	MG/KG	R
SVOCs	T	Dibenz(a,h)anthracene	MG/KG	R
SVOCs	T	Dibenzofuran	MG/KG	R
SVOCs	T	Fluoranthene	MG/KG	R
SVOCs	T	Fluorene	MG/KG	R
SVOCs	T	Indeno(1,2,3-cd)pyrene	MG/KG	R
SVOCs	T	Phenanthrene	MG/KG	R
SVOCs	T	Pyrene	MG/KG	R
VOCS	T	2-Butanone	MG/KG	0.14 J
VOCS	T	Acetone	MG/KG	0.39 J
VOCS	T	Ethylbenzene	MG/KG	R
VOCS	T	Formaldehyde	MG/KG	4.2 J
VOCS	T	Isopropylbenzene	MG/KG	R
VOCS	T	n-Butylbenzene	MG/KG	R
VOCS	T	Naphthalene	MG/KG	R
VOCS	T	Xylenes (m&p)	MG/KG	R

Notes:

AOC = Area of Concern
 SD = Sediment Sample
 Depths are in feet below ground surface
 Qc Code: FS = Field sample; FD = Field Duplicate
 Qual. = qualifier
 NA = Not applicable; NL = No criteria established
 Fraction:
 T = Total
 MG/KG = milligrams per kilogram
 Only results from detected parameters shown.
 U = below reporting limit; J = value estimated
 VOCs = Volatile organic compounds
 SVOCs = Semi-Volatile organic compounds
 PCBs = polychlorinated biphenyls
 ND = not detected

ADDENDUM 1 / TABLE 3
SUMMARY OF SEDIMENT ANALYTICAL RESULTS - AOC 230
2011 - 2016

	Aoc Name	230	230	230	230	230	230	230	230	230	230	230	230	230	
	Location	SD-18	SD-19	SD-19	SD-20	SD-21	SD-22	SD-23	SD-24	SD-29	SD-30	SD-31	SD-31	SD-32	
	Depth	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	
	Sample ID	SD-18	SD-19 DUP	SD-19	FD	SD-20	FS	SD-21	FS	SD-22	SD-23	SD-24	FS	SD-29	
	QC Code	FS				9/14/2011		9/14/2011		9/6/2011		8/25/2011		8/24/2011	
	Sample Date	9/15/2011	9/14/2011	9/14/2011		9/14/2011		9/14/2011		8/25/2011		8/24/2011		9/15/2011	
Chem Class	Fraction	Parameter	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Metals	T	Antimony	MG/KG	1.2 U	2.1 U	1.1 U	1.6 U	1.2 UJ	0.9 U	1 U	1.6 U	1.1 U	0.95 U	2.5 U	
Metals	T	Arsenic	MG/KG	1.8	3.2 J	1.5 J	1.6 J	5.6	2.8	0.95	1.7	2.9	4	0.95	4 J
Metals	T	Barium	MG/KG	150	140 J	65 J	89 J	160	60	110	580	95	90	320 J	
Metals	T	Beryllium	MG/KG	0.76 U	1.3 U	0.69 U	0.68 U	0.99 U	0.73 U	0.56 U	0.65 U	1 U	0.73	0.6 U	1.6 U
Metals	T	Cadmium	MG/KG	0.83	4.9 J	2 J	2.2 J	4.2	0.74	1.2	6.1	1 U	0.69 U	1.3	5.8 J
Metals	T	Chromium	MG/KG	10	66 J	62 J	22 J	56	25	8.2	62	15	12	9.3	49 J
Metals	T	Chromium, Trivalent	MG/KG	10	66	62	22	56	25	8.2	62	15	12	9.3	49
Metals	T	Cobalt	MG/KG	5.7	5.7 J	3.1 J	2.8 J	8.9	6.1	2.6	4.4	6.3	5.6	4.2	5.5 J
Metals	T	Copper	MG/KG	11	36 J	25 J	9.7 J	32	13 J	4.4	110	19	4.8	14	18 J
Metals	T	Lead	MG/KG	13	42 J	16 J	7.9 J	21	8.2	4.1	31	34	5.3	23	14 J
Metals	T	Mercury	MG/KG	0.075 U	0.2 J	0.067 UJ	0.068 UJ	0.13 U	0.098 U	0.063 U	0.081	0.092 U	0.069 U	0.059 U	0.16 UJ
Metals	T	Nickel	MG/KG	8.6	17	11	11	22	12	5.2	16	15	7.3	11	13
Metals	T	Selenium	MG/KG	1.5 U	2.7 U	1.4 U	1.4 U	4.4	2.4	1.1 U	1.3 U	2 U	1.4 U	1.2 U	3.1 U
Metals	T	Silver	MG/KG	0.76 U	1.3 UJ	1.3 J	0.68 UJ	0.99 U	0.73 U	0.56 U	4	1 U	0.69 U	0.6 U	1.6 UJ
Metals	T	Vanadium	MG/KG	18	47 J	20 J	14 J	120	56 J	12	22	29	40	26	32 J
Metals	T	Zinc	MG/KG	34	230 J	110 J	77 J	150	42 J	41	140	30	81	140 J	
ORG	T	Total Organic Carbon	MG/KG	13000	35000	26000	7400	56000	28000	3600	9300	13000	6300	3000	88000
PCBs	T	Aroclor-1242	MG/KG	0.029 U	0.046 U	0.024 U	0.024 U	0.049 U	0.033 U	0.023 U	0.26 U	0.034 U	0.026 U	0.022 U	0.057 U
PCBs	T	Aroclor-1248	MG/KG	0.029 U	0.48 J	0.37 J	0.25	0.15	0.033 U	0.023 U	1.8	0.048	0.038	0.075	0.4
PCBs	T	Aroclor-1254	MG/KG	0.029 U	0.31 J	0.21 J	0.09	0.085 J	0.033 U	0.023 U	0.67	0.034 U	0.026 U	0.072	0.14
PCBs	T	Aroclor-1260	MG/KG	0.029 U	0.053 J	0.042 J	0.029	0.049 U	0.033 U	0.023 U	0.26 U	0.034 U	0.026 U	0.022 U	0.066 J
PCBs	T	Total Aroclors	MG/KG	ND	0.843 J	0.622 J	0.369	0.235 J	ND	2.47	0.048	0.038	0.147	0.147	0.146 J
SVOCs	T	2,6-Dinitrotoluene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Acenaphthene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Acenaphthylene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Anthracene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Benzo(a)anthracene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Benzo(a)pyrene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Benzo(b)fluoranthene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Benzo(ghi)perylene	MG/KG	0.46 UU	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 UU	0.41 UU	0.35 UJ	4.7
SVOCs	T	Benzo(k)fluoranthene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Bis(2-Ethylhexyl)phthalate	MG/KG	0.46 U	8.2 J	22 J	13	3.2	0.6	0.37 U	0.6	0.55 U	0.41 U	0.35 UJ	4.7
SVOCs	T	Carbazole	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Chrysene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Di-n-butylphthalate	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Di-n-octylphthalate	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 UU	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Dibenz(a,h)anthracene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Dibenzofuran	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Fluoranthene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Fluorene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35 U	3.6 U
SVOCs	T	Indeno(1,2,3-cd)pyrene	MG/KG	0.46 UU	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 UU	0.41 UU	0.35 UJ	4.5
SVOCs	T	Phenanthrene	MG/KG	0.46 U	0.74 U	0.76 U	0.76 U	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.35	4
SVOCs	T	Pyrene	MG/KG	0.46 U	0.74 UU	0.82 J	1.2	0.79 U	0.53 U	0.37 U	0.42 U	0.55 U	0.41 U	0.61	12
VOCs	T	2-Butanone	MG/KG	0.017 UJ	0.027 UJ	0.014 UJ	0.014 U	0.029 UJ	0.022 J	0.014 U	0.016 U	0.02 UJ	0.015 U	0.013 U	0.047
VOCs	T	Acetone	MG/KG	0.034 UJ	0.055 UJ	0.028 UJ	0.028 U	0.062 J	0.049 J	0.028 U	0.031 U	0.049 J	0.03 U	0.026 U	0.12
VOCs	T	Ethylbenzene	MG/KG	0.0085 UJ	0.014 UJ	0.0071 UJ	0.007 U	0.015 UJ	0.0098 UJ	0.0069 U	0.0078 U	0.01 UJ	0.0076 U	0.0066 U	0.017 U
VOCs	T	Formaldehyde	MG/KG	0.79	0.98 J	0.52 J	0.57	0.42	0.81	0.72	0.71	1.2	1	0.83	1
VOCs	T	Isopropylbenzene	MG/KG	0.0085 UJ	0.014 UJ	0.0071 UJ	0.007 U	0.015 UJ	0.0098 UJ	0.0069 U	0.0078 U	0.01 UJ	0.0076 U	0.0066 U	0.017 U
VOCs	T	n-Butylbenzene	MG/KG	0.0085 UJ	0.014 UJ	0.0071 UJ	0.007 U	0.015 UJ	0.0098 UJ	0.0069 U	0.0078 U	0.01 UJ	0.0076 U	0.0066 U	0.017 U
VOCs	T	Naphthalene	MG/KG	0.46 U, UJ	0.74 U, UJ	0.76 U, UJ	0.76 U	0.79 U, UJ	0.53 U, UJ	0.37 U	0.42 U	0.55 U, UJ	0.41 U	0.35 U	3.6 U
VOCs	T	Xylenes (m&p)	MG/KG	0.0085 UJ	0.014 UJ	0.0071 UJ	0.007 U	0.015 UJ	0.0098 UJ	0.0069 U	0.0078 U	0.01 UJ	0.0076 U	0.0066 U	0.017 U

ADDENDUM 1 / TABLE 3
SUMMARY OF SEDIMENT ANALYTICAL RESULTS - AOC 230
2011 - 2016

Chem Class	Fraction	Parameter	Aoc Name	230	230	230	230	230	230	230	230	230
			Location	SD-33	SD-34	SD-35	SD-66	SD-67	SD-68	SD-69	SD-70	SD-70
Sample ID	Depth		0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5
QC Code			SD-33	SD-34	SD-35	SD-66	SD-67	SD-68	SD-69	SD-70	SD-70	SD-70
Sample Date			9/6/2011	8/25/2011	8/24/2011	8/8/2016	8/8/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016
Units			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Metals	T	Antimony	MG/KG	1.2 U	0.84 U	0.94 U	1.3 U	0.62 U	0.89 U	0.74 U		
Metals	T	Arsenic	MG/KG	1.8	2	1.3	2.7 U	3	5.2	2.3		
Metals	T	Barium	MG/KG	96	96	71	66	19	620	480		
Metals	T	Beryllium	MG/KG	0.72 U	0.52 U	0.59 U	0.27 U	0.25 U	0.36 U	0.3 U		
Metals	T	Cadmium	MG/KG	0.72 U	0.77	1.9	2.2	0.25 U	0.67	0.36		
Metals	T	Chromium	MG/KG	28	22	18	29	9.3	14	7.2		
Metals	T	Chromium, Trivalent	MG/KG	28	22	18						
Metals	T	Cobalt	MG/KG	5	7.9	3.8						
Metals	T	Copper	MG/KG	14	13 J	49	22	27	14	17		
Metals	T	Lead	MG/KG	9.4	5.9	16	12	8.9	28	10		
Metals	T	Mercury	MG/KG	0.085 U	0.076 U	0.066 U	0.048 J	0.023 UJ	0.042 J	0.025 UJ		
Metals	T	Nickel	MG/KG	13	14	10	13	6.5	14	14		
Metals	T	Selenium	MG/KG	2.2	1	1.2 U	0.67 U	0.62 U	3.8	2.2		
Metals	T	Silver	MG/KG	0.72 U	0.52 U	1.6	1.3 U	0.62 U	2.1	1.2		
Metals	T	Vanadium	MG/KG	64	30 J	17	19	11	28	29		
Metals	T	Zinc	MG/KG	47	50 J	80	90	81	120	81		
ORG	T	Total Organic Carbon	MG/KG	18000	13000	7800	22000	16000	35000	1000 U		
PCBs	T	Aroclor-1242	MG/KG	0.029 U	0.025 U	0.024 U	0.14 U	0.12 U	0.18 U	0.13 U		
PCBs	T	Aroclor-1248	MG/KG	0.029 U	0.025 U	0.024 U	0.14 U	0.12 U	0.18 U	0.13 U		
PCBs	T	Aroclor-1254	MG/KG	0.029 U	0.025 U	0.024 U	0.14 U	0.12 U	0.18 U	0.13 U		
PCBs	T	Aroclor-1260	MG/KG	0.029 U	0.025 U	0.024 U	0.14 U	0.12 U	0.18 U	0.13 U		
PCBs	T	Total Aroclors	MG/KG	ND	ND	ND	ND	ND	ND	ND		
SVOCs	T	2,6-Dinitrotoluene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 UJ	4.2 U	1.6 U	1.1 U		
SVOCs	T	Acenaphthene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Acenaphthylene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Anthracene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Benzo(a)anthracene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Benzo(a)pyrene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Benzo(b)fluoranthene	MG/KG	0.47 U	0.4 U	0.39	1.2 UJ	4.2 U	1.6 U	1.1 U		
SVOCs	T	Benzo(ghi)perylene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Benzo(k)fluoranthene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Bis(2-Ethylhexyl)phthalate	MG/KG	0.47	0.52	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U	1.3 U	
SVOCs	T	Carbazole	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Chrysene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Di-n-butylphthalate	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Di-n-octylphthalate	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Dibenz(a,h)anthracene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 UJ	4.2 U	1.6 U	1.1 U		
SVOCs	T	Dibenzofuran	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Fluoranthene	MG/KG	0.47 U	0.4 U	0.6	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Fluorene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Indeno(1,2,3-cd)pyrene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 UJ	4.2 U	1.6 U	1.1 U		
SVOCs	T	Phenanthrene	MG/KG	0.47 U	0.4 U	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
SVOCs	T	Pyrene	MG/KG	0.47 U	0.4 U	0.55	1.2 U	4.2 U	1.6 U	1.1 U		
VOCs	T	2-Butanone	MG/KG	0.017 UJ	0.015 UJ	0.014 U	0.037 U	0.024 U	0.083 J	0.027 U		
VOCs	T	Acetone	MG/KG	0.035 UJ	0.031 UJ	0.029 U	0.37 U	0.24 U	0.44 U	0.27 U		
VOCs	T	Ethylbenzene	MG/KG	0.0087 UJ	0.0076 UJ	0.0072 U	0.0073 U	0.0048 U	0.0087 U	0.0053 U		
VOCs	T	Formaldehyde	MG/KG	0.17 U	0.59	0.85	3.4 J	3	29	9		
VOCs	T	Isopropylbenzene	MG/KG	0.0087 UJ	0.0076 UJ	0.0072 U	0.0073 U	0.0048 U	0.0087 U	0.0053 U		
VOCs	T	n-Butylbenzene	MG/KG	0.0087 UJ	0.0076 UJ	0.0072 U	0.0073 U	0.0048 U	0.0087 U	0.0053 U		
VOCs	T	Naphthalene	MG/KG	0.47 U, UJ	0.4 U, UJ	0.39 U	1.2 U	4.2 U	1.6 U	1.1 U		
VOCs	T	Xylenes (m&p)	MG/KG	0.0087 UJ	0.0076 UJ	0.0072 U	0.0073 U	0.0048 U	0.0087 U	0.0053 U		

Notes:
AOC = Area of Concern
SD = Sediment Sample
Depth are in feet below ground surface
Qc Code: FS = Field sample; FD = Field Duplicate
Qual. = qualifier
NA = Not applicable; NL = No criteria established; ND = not detected
Fraction:
T = Total
MG/KG = milligrams per kilogram
Only results from detected parameters shown.
U = below reporting limit; J = value estimated
VOCs = Volatile organic compounds
SVOCs = Semi-Volatile organic compounds
PCBs = polychlorinated biphenyls

ADDENDUM 1 / TABLE 4
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS - AOC 120
2011 - 2017

Chem Class	Fraction	Parameter	CT-DIRIND	Sample Date	120		120		120		120		120		120		120		120		120	
					Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.
Metals	S	Antimony	NA	MG/L																		
Metals	S	Arsenic	NA	MG/L																		
Metals	S	Barium	NA	MG/L																		
Metals	S	Beryllium	NA	MG/L																		
Metals	S	Cadmium	NA	MG/L																		
Metals	S	Chromium	NA	MG/L																		
Metals	S	Cobalt	NA	MG/L																		
Metals	S	Copper	NA	MG/L																		
Metals	S	Mercury	NA	MG/L																		
Metals	S	Nickel	NA	MG/L																		
Metals	S	Selenium	NA	MG/L																		
Metals	S	Silver	NA	MG/L																		
Metals	S	Vanadium	NA	MG/L																		
Metals	S	Zinc	NA	MG/L																		
Metals	T	Antimony	8,200	MG/KG																		
Metals	T	Arsenic	10	MG/KG																		
Metals	T	Barium	140,000	MG/KG																		
Metals	T	Beryllium	2	MG/KG																		
Metals	T	Cadmium	1,000	MG/KG																		
Metals	T	Chromium	100	MG/KG																		
Metals	T	Chromium, Trivalent	51,000	MG/KG																		
Metals	T	Cobalt	NL	MG/KG																		
Metals	T	Copper	76,000	MG/KG																		
Metals	T	Lead	1,000	MG/KG																		
Metals	T	Mercury	610	MG/KG																		
Metals	T	Nickel	7,500	MG/KG																		
Metals	T	Selenium	10,000	MG/KG																		
Metals	T	Silver	10,000	MG/KG																		
Metals	T	Vanadium	14,000	MG/KG																		
Metals	T	Zinc	610,000	MG/KG																		
ORG	T	Total Organic Carbon	NL	MG/KG																		
PCBs	T	Aroclor-1242	10	MG/KG	4.7 U		0.12 U	13 U	0.12 U	0.1 U	1.3 U	0.12 U	0.1 U	0.12 U	0.53 U	0.2 U	0.17 U	0.11 U	0.15 U	0.15 U		
PCBs	T	Aroclor-1248	10	MG/KG	65		0.14	260	0.12 U	0.13	21	1.9	0.12	0.38	6.2	2.7	0.17 U	0.11 U	0.15 U	0.15 U		
PCBs	T	Aroclor-1254	10	MG/KG	4.7 U		0.12 U	13 U	0.12 U	0.1 U	1.3 U	0.12 U	0.1 U	0.31	0.53 U	0.2 U	0.17 U	0.11 U	0.15 U	0.15 U		
PCBs	T	Aroclor-1260	10	MG/KG	4.7 U		0.12 U	13 U	0.12 U	0.1 U	1.3 U	0.12 U	0.1 U	0.12 U	0.53 U	0.2 U	0.17 U	0.11 U	0.15 U	0.15 U		
PCBs	T	Total Aroclors	10	MG/KG	65		0.14	260	ND	0.13	21	1.9	0.12	0.69	6.2	2.7	ND	ND	ND	ND	0.15	ND
SVOCs	T	2,6-Dinitrotoluene	NL	MG/KG																		
SVOCs	T	Acenaphthene	NL	MG/KG																		
SVOCs	T	Acenaphthylene	2,500	MG/KG																		
SVOCs	T	Anthracene	2,500	MG/KG																		
SVOCs	T	Benz(a)anthracene	7.8	MG/KG																		
SVOCs	T	Benz(a)pyrene	1	MG/KG																		
SVOCs	T	Benz(b)fluoranthene	7.8	MG/KG																		
SVOCs	T	Benz(ghi)perylene	NL	MG/KG																		
SVOCs	T	Benz(k)fluoranthene	78	MG/KG																		
SVOCs	T	Bi(2-Ethyhexyl)phthalate	410	MG/KG																		
SVOCs	T	Carbazole	NL	MG/KG																		
SVOCs	T	Chrysene	NL	MG/KG																		
SVOCs	T	Di-n-butylphthalate	2,500	MG/KG																		
SVOCs	T	Di-n-octylphthalate	2,500	MG/KG																		
SVOCs	T	Dibenzo(a,h)anthracene	NL	MG/KG																		
SVOCs	T	Dibenzofuran	NL	MG/KG																		
SVOCs	T	Fluoranthene	2,500	MG/KG																		
SVOCs	T	Fluorene	2,500	MG/KG																		
SVOCs	T	Indeno(1,2,3-cd)pyrene	NL	MG/KG																		
SVOCs	T	Methanol	2,500	MG/KG																		
SVOCs	T	Phenanthrene	2,500	MG/KG																		
SVOCs	T	Pyrene	2,500	MG/KG																		
VOCs	T	2-Butanone	1,000	MG/KG																		
VOCs	T	Acetone	1,000	MG/KG																		
VOCs	T	Ethylbenzene	1,000	MG/KG																		
VOCs	T	Formaldehyde	2,500	MG/KG																		
VOCs	T	Isopropylbenzene	NL	MG/KG																		
VOCs	T	n-Butylbenzene	NL	MG/KG																		
VOCs	T	Naphthalene	2,500	MG/KG																		
VOCs	T	Xylenes (m&p)	1,000	MG/KG																		

ADDENDUM 1 / TABLE 4
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS - AOC 120
2011 - 2017

		AOC Name	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120		
Chem Class	Fraction	Parameter	CT-DIR/IND	Units	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	
Metals	S	Antimony	NA	MG/KG																			
Metals	S	Arsenic	NA	MG/KG																			
Metals	S	Barium	NA	MG/KG																			
Metals	S	Beryllium	NA	MG/KG																			
Metals	S	Cadmium	NA	MG/KG																			
Metals	S	Chromium	NA	MG/KG																			
Metals	S	Cobalt	NA	MG/KG																			
Metals	S	Copper	NA	MG/KG																			
Metals	S	Lead	NA	MG/KG																			
Metals	S	Mercury	NA	MG/KG																			
Metals	S	Nickel	NA	MG/KG																			
Metals	S	Selenium	NA	MG/KG																			
Metals	S	Silver	NA	MG/KG																			
Metals	S	Vanadium	NA	MG/KG																			
Metals	S	Zinc	NA	MG/KG																			
	T	Antimony	8,200	MG/KG																			
	T	Arsenic	10	MG/KG																			
	T	Barium	140,000	MG/KG																			
	T	Beryllium	2	MG/KG																			
	T	Cadmium	1,000	MG/KG																			
	T	Chromium	100	MG/KG																			
	T	Chromium, Trivalent	51,000	MG/KG																			
	T	Cobalt	NL	MG/KG																			
	T	Copper	76,000	MG/KG																			
	T	Lead	1,000	MG/KG																			
	T	Mercury	610	MG/KG																			
	T	Nickel	7,500	MG/KG																			
	T	Selenium	10,000	MG/KG																			
	T	Silver	10,000	MG/KG																			
	T	Vanadium	14,000	MG/KG																			
	T	Zinc	610,000	MG/KG																			
ORG	T	Total Organic Carbon	NL	MG/KG																			
PCBs	T	Arodror-1242	10	MG/KG	0.1 U		0.12 U		0.096 U		0.11 U		0.11 U		0.56 U		0.11 U		0.13 U		0.12 U		0.1 U
PCBs	T	Arodror-1248	10	MG/KG	0.1 U		0.12 U		0.096 U		0.11 U		0.11 U		3.6		0.11 U		0.22		0.1 U		0.14 U
PCBs	T	Arodror-1254	10	MG/KG	0.1 U		0.12 U		0.096 U		0.11 U		0.11 U		0.56 U		0.11 U		0.15		0.1 U		0.12 U
PCBs	T	Arodror-1260	10	MG/KG	0.1 U		0.12 U		0.096 U		0.11 U		0.11 U		0.56 U		0.11 U		0.13 U		0.1 U		0.33
SVOCs	T	2,6-Dinitrotoluene	NL	MG/KG	ND		ND		ND		ND		ND		ND		ND		0.37		0.38		ND
SVOCs	T	Acenaphthene	NL	MG/KG																			
SVOCs	T	Acenaphthylene	2,500	MG/KG																			
SVOCs	T	Anthracene	2,500	MG/KG																			
SVOCs	T	Benz(a)anthracene	7.8	MG/KG																			
SVOCs	T	Benz(a)pyrene	1	MG/KG																			
SVOCs	T	Benz(b)fluoranthene	7.8	MG/KG																			
SVOCs	T	Benz(g)perylene	NL	MG/KG																			
SVOCs	T	Benz(k)fluoranthene	78	MG/KG																			
SVOCs	T	Bis(2-Ethylhexyl)phthalate	410	MG/KG																			
SVOCs	T	Carbazole	NL	MG/KG																			
SVOCs	T	Chrysene	NL	MG/KG																			
SVOCs	T	Di-n-butylphthalate	2,500	MG/KG																			
SVOCs	T	Di-n-octylphthalate	2,500	MG/KG																			
SVOCs	T	Dibenz(a,h)anthracene	NL	MG/KG																			
SVOCs	T	Dibenzo[f,u]furan	NL	MG/KG																			
SVOCs	T	Fluoranthene	2,500	MG/KG																			
SVOCs	T	Fluorene	2,500	MG/KG																			
SVOCs	T	Indeno[1,2,3-cd]pyrene	NL	MG/KG																			
SVOCs	T	Methanol	2,500	MG/KG																			
SVOCs	T	Phenanthrene	2,500	MG/KG																			
SVOCs	T	Pyrene	2,500	MG/KG																			
VOCs	T	2-Butanone	1,000	MG/KG																			
VOCs	T	Acetone	1,000	MG/KG																			
VOCs	T	Ethylbenzene	1,000	MG/KG																			
VOCs	T	Formaldehyde	2,500	MG/KG																			
VOCs	T	Isopropylbenzene	NL	MG/KG																			
VOCs	T	n-Butylbenzene	NL	MG/KG																			
VOCs	T	Naphthalene	2,500	MG/KG																			
VOCs	T	Xylenes (m&p)	1,000	MG/KG																			

ADDENDUM 1 / TABLE 4
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS - AOC 120
 2011 - 2017

Chem Class	Fraction	Parameter	CT-DIRIND	AOC Name	120	120	120	120
					Location	SS-330	SS-330	SS-331
				Sample ID	SS-330-00	SS-330-01	SS-331-00	SS-331-01
				QC Code	FS	FS	FS	FS
				Sample Date	7/21/2017	7/24/2017	7/24/2017	7/24/2017
				Units	Result	Qual.	Result	Qual.
					Result	Qual.	Result	Qual.
					Result	Qual.	Result	Qual.
Metals	S	Antimony		NA	MG/L			
Metals	S	Arsenic		NA	MG/L			
Metals	S	Barium		NA	MG/L			
Metals	S	Beryllium		NA	MG/L			
Metals	S	Cadmium		NA	MG/L			
Metals	S	Chromium		NA	MG/L			
Metals	S	Cobalt		NA	MG/L			
Metals	S	Copper		NA	MG/L			
Metals	S	Lead		NA	MG/L			
Metals	S	Mercury		NA	MG/L			
Metals	S	Nickel		NA	MG/L			
Metals	S	Selenium		NA	MG/L			
Metals	S	Silver		NA	MG/L			
Metals	S	Vanadium		NA	MG/L			
Metals	S	Zinc		NA	MG/L			
Metals	T	Antimony	8,200	MG/KG				
Metals	T	Arsenic	10	MG/KG				
Metals	T	Barium	140,000	MG/KG				
Metals	T	Beryllium	2	MG/KG				
Metals	T	Cadmium	1,000	MG/KG				
Metals	T	Chromium	100	MG/KG				
Metals	T	Chromium, Trivalent	51,000	MG/KG				
Metals	T	Cobalt	NL	MG/KG				
Metals	T	Copper	76,000	MG/KG				
Metals	T	Lead	1,000	MG/KG				
Metals	T	Mercury	610	MG/KG				
Metals	T	Nickel	7,500	MG/KG				
Metals	T	Selenium	10,000	MG/KG				
Metals	T	Silver	10,000	MG/KG				
Metals	T	Vanadium	14,000	MG/KG				
Metals	T	Zinc	610,000	MG/KG				
ORG	T	Total Organic Carbon	NL	MG/KG				
PCBs	T	Aroclor-1242	10	MG/KG	0.1 U	0.11 U	1.6 U	7.1 U
PCBs	T	Aroclor-1248	10	MG/KG	0.1 U	0.11 U	32	330
PCBs	T	Aroclor-1254	10	MG/KG	0.1 U	0.11 U	1.6 U	7.1 U
PCBs	T	Aroclor-1260	10	MG/KG	0.1 U	0.11 U	1.6 U	7.1 U
PCBs	T	Total Aroclors	10	MG/KG	ND	ND	32	330
SVOCs	T	2,6-Dinitrotoluene	NL	MG/KG				
SVOCs	T	Acenaphthene	NL	MG/KG				
SVOCs	T	Acenaphthylene	2,500	MG/KG				
SVOCs	T	Anthracene	2,500	MG/KG				
SVOCs	T	Benz(a)anthracene	7.8	MG/KG				
SVOCs	T	Benz(a)pyrene	1	MG/KG				
SVOCs	T	Benz(b)fluoranthene	7.8	MG/KG				
SVOCs	T	Benz(gi)perylene	NL	MG/KG				
SVOCs	T	Benz(k)fluoranthene	78	MG/KG				
SVOCs	T	Bis(2-Ethylhexyl)phthalate	410	MG/KG				
SVOCs	T	Carbazole	NL	MG/KG				
SVOCs	T	Chrysene	NL	MG/KG				
SVOCs	T	Di-n-butylphthalate	2,500	MG/KG				
SVOCs	T	Di-n-octylphthalate	2,500	MG/KG				
SVOCs	T	Dibenz(a,h)anthracene	NL	MG/KG				
SVOCs	T	Dibenzo-furan	NL	MG/KG				
SVOCs	T	Fluoranthene	2,500	MG/KG				
SVOCs	T	Fluorene	2,500	MG/KG				
SVOCs	T	Indeno(1,2,3-cd)pyrene	NL	MG/KG				
SVOCs	T	Methanol	2,500	MG/KG				
SVOCs	T	Phenanthrene	2,500	MG/KG				
SVOCs	T	Pyrene	2,500	MG/KG				
VOCs	T	2-Butanone	1,000	MG/KG				
VOCs	T	Acetone	1,000	MG/KG				
VOCs	T	Ethybenzene	1,000	MG/KG				
VOCs	T	Formaldehyde	2,500	MG/KG				
VOCs	T	Isopropylbenzene	NL	MG/KG				
VOCs	T	n-Butylbenzene	NL	MG/KG				
VOCs	T	Naphthalene	2,500	MG/KG				
VOCs	T	Xylenes (m&p)	1,000	MG/KG				

Notes:

ACC = Area of Concern
 SS = Surface Soil Sample; SB = Soil Boring
 Depths are in feet below ground surface
 Qc Code. FS = Field sample; FD = Field Duplicate
 Qual. = qualifier
 I/C DEC = Industrial/Commercial Direct Exposure Criteria
 NA = Not applicable; NL = No criteria established
 Fraction:
 S = SPLP (synthetic precipitation leaching procedure)
 T = Total
 MG/KG = milligrams per kilogram
 Only results from detected parameters shown.
 U = below reporting limit; J = value estimated; ND = not detected
 VOCs = Volatile organic compounds
 SVOCs = Semi-Volatile organic compounds
 PCBs = polychlorinated biphenyls
 Exceeds criteria

ADDENDUM 1 / TABLE 5
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS - AOC 230
 2016

Chem Class	Fraction	Parameter	CT-DIRIND	Units	AOC Name	230	230
					Location	SS-211	SS-212
					Depth	0.0 - 0.5	0.0 - 0.5
					Sample ID	SS-211	SS-212
					QC Code	FS	FS
					Sample Date	8/10/2016	8/10/2016
					Result	Qual.	Result
							Qual.
Metals	T	Antimony	8,200	MG/KG	0.73 UJ	0.68 UJ	
Metals	T	Arsenic	10	MG/KG	3.8	5	
Metals	T	Barium	140,000	MG/KG	150	260	
Metals	T	Beryllium	2	MG/KG	0.58	0.88	
Metals	T	Cadmium	1,000	MG/KG	1.8	2.6	
Metals	T	Chromium	100	MG/KG	89	94	
Metals	T	Copper	76,000	MG/KG	190	220	
Metals	T	Lead	1,000	MG/KG	65	89	
Metals	T	Mercury	610	MG/KG	0.16 J	0.21 J	
Metals	T	Nickel	7,500	MG/KG	28	42	
Metals	T	Selenium	10,000	MG/KG	0.73 U	1.2	
Metals	T	Silver	10,000	MG/KG	8.6	7.2	
Metals	T	Vanadium	14,000	MG/KG	40	58	
Metals	T	Zinc	610,000	MG/KG	140	210	
PCBs	T	Aroclor-1242	10	MG/KG	0.14 U	0.13 U	
PCBs	T	Aroclor-1248	10	MG/KG	0.14 U	0.17	
PCBs	T	Aroclor-1254	10	MG/KG	0.14 U	0.22	
PCBs	T	Aroclor-1260	10	MG/KG	0.14 U	0.16	
PCBs	T	Total Aroclors	10	MG/KG	ND	0.55	
SVOCs	T	2,6-Dinitrotoluene	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Acenaphthene	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Acenaphthylene	2,500	MG/KG	2.4 U	4.9 U	
SVOCs	T	Anthracene	2,500	MG/KG	2.4 U	4.9 U	
SVOCs	T	Benzo(a)anthracene	7.8	MG/KG	2.4 U	4.9 U	
SVOCs	T	Benzo(a)pyrene	1	MG/KG	2.4 U	4.9 U	
SVOCs	T	Benzo(b)fluoranthene	7.8	MG/KG	2.4 U	4.9 U	
SVOCs	T	Benzo(ghi)perylene	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Benzo(k)fluoranthene	78	MG/KG	2.4 U	4.9 U	
SVOCs	T	Bis(2-Ethylhexyl)phthalate	410	MG/KG	2.4 U	4.9 U	
SVOCs	T	Carbazole	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Chrysene	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Di-n-butylphthalate	2,500	MG/KG	2.4 U	4.9 U	
SVOCs	T	Di-n-octylphthalate	2,500	MG/KG	2.4 U	4.9 U	
SVOCs	T	Dibenz(a,h)anthracene	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Dibenzofuran	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Fluoranthene	2,500	MG/KG	2.4 U	4.9 U	
SVOCs	T	Fluorene	2,500	MG/KG	2.4 U	4.9 U	
SVOCs	T	Indeno(1,2,3-cd)pyrene	NL	MG/KG	2.4 U	4.9 U	
SVOCs	T	Phenanthrene	2,500	MG/KG	2.4 U	4.9 U	
SVOCs	T	Pyrene	2,500	MG/KG	2.4 U	4.9 U	
VOCs	T	2-Butanone	1,000	MG/KG	0.038 U	0.045 U	
VOCs	T	Acetone	1,000	MG/KG	0.38 U	0.45 U	
VOCs	T	Ethylbenzene	1,000	MG/KG	0.0075 U	0.009 U	
VOCs	T	Isopropylbenzene	NL	MG/KG	0.0075 U	0.009 U	
VOCs	T	n-Butylbenzene	NL	MG/KG	0.0075 U	0.009 U	
VOCs	T	Naphthalene	2,500	MG/KG	2.4 U	4.9 U	
VOCs	T	Xylenes (m&p)	1,000	MG/KG	0.0075 U	0.009 U	

Notes:

AOC = Area of Concern

SS = Surface soil sample

Depths are in feet below ground surface

Qc Code: FS = Field sample

Qual. = qualifier

I/C DEC = Industrial/Commercial Direct Exposure Criteria

NL = No criteria established

Fraction:

T = Total

MG/KG = milligrams per kilogram

Only results from detected parameters shown.

U = below reporting limit; J = value estimated; ND = not detected

VOCs = Volatile organic compounds

SVOCs = Semi-Volatile organic compounds

PCBs = polychlorinated biphenyls

ADDENDUM 1 / TABLE 6
SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS - AOC 120
2011 - 2017

Chem Class	Fraction	Parameter	I/C DEC	Sample Date	AOC Name	120	120	120	120	120	120	120
					Location	SB-1010	SB-1012	SB-1013	SB-1013	SB-1142	SB-1143	SB-1144
					Depth	3.0 - 3.5	4.0 - 5.0	2.0 - 2.8	2.0 - 2.8	3.0 - 4.0	3.0 - 4.0	3.0 - 4.0
Sample ID	QC Code	Sample ID	QC Code	Result	FS	FS	FS	FS	FD	FS	FS	FS
				8/29/2011	9/1/2011	8/31/2011	8/31/2011	8/31/2011	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result
Metals	S	Antimony	NA	MG/L	0.004 U		0.004 U	0.004 U				
Metals	S	Arsenic	NA	MG/L	0.0025 U		0.0025 U	0.0025 U				
Metals	S	Barium	NA	MG/L	0.005		0.0053	0.003				
Metals	S	Beryllium	NA	MG/L	0.0025 U		0.0025 U	0.0025 U				
Metals	S	Cadmium	NA	MG/L	0.0055		0.0057	0.0061				
Metals	S	Chromium	NA	MG/L	0.0073		0.016	0.0091				
Metals	S	Cobalt	NA	MG/L	0.0086		0.012	0.0067				
Metals	S	Copper	NA	MG/L	0.0052		0.0034	0.0025 U				
Metals	S	Lead	NA	MG/L	0.0002 U		0.00029	0.0002 U				
Metals	S	Mercury	NA	MG/L	0.0002 U		0.0056	0.0033				
Metals	S	Nickel	NA	MG/L	0.0059		0.005	0.005 U				
Metals	S	Selenium	NA	MG/L	0.005 U		0.0025 U	0.0025 U				
Metals	S	Silver	NA	MG/L	0.0025 U		0.025	0.024				
Metals	S	Vanadium	NA	MG/L	0.0082		0.025 U	0.025 U				
Metals	S	Zinc	NA	MG/L	0.025 U		0.025 U	0.025 U				
Metals	T	Antimony	8,200	MG/KG	0.91 U	0.77 U	2.5					
Metals	T	Arsenic	10	MG/KG	1.8	1.5	2.7					
Metals	T	Barium	140,000	MG/KG	50	41	85					
Metals	T	Beryllium	2	MG/KG	0.57 U	0.48 U	0.87 U					
Metals	T	Cadmium	1,000	MG/KG	30	27	64					
Metals	T	Chromium	100	MG/KG	62	26	130					
Metals	T	Cobalt	NL	MG/KG	3.8	3	4.4					
Metals	T	Copper	76,000	MG/KG	48	28	130					
Metals	T	Lead	1,000	MG/KG	29	12	51					
Metals	T	Mercury	610	MG/KG	1.3	0.45	2					
Metals	T	Nickel	7,500	MG/KG	37	25	56					
Metals	T	Selenium	10,000	MG/KG	3.3	2.8	6.4					
Metals	T	Silver	10,000	MG/KG	2.5	0.73	6.9					
Metals	T	Vanadium	14,000	MG/KG	33	83	52					
Metals	T	Zinc	610,000	MG/KG	140	100	190					
PCBs	T	Aroclor-1242	10	MG/KG	0.53 U	0.6 U	0.82 U		0.1 U	0.11 U	0.11 U	
PCBs	T	Aroclor-1248	10	MG/KG	3.4	7.6	7		0.76	0.11 U	0.87	
PCBs	T	Aroclor-1254	10	MG/KG	1 J	0.6 U	3.8		0.1 U	0.11 U	0.11 U	
PCBs	T	Aroclor-1260	10	MG/KG	0.53 U	0.6 U	0.82 U		0.1 U	0.11 U	0.11 U	
PCBs	T	Total Aroclors	10	MG/KG	4.4 J	7.6	10.8		0.76	ND	0.87	
SVOCs	T	2,6-Dinitrotoluene	NL	MG/KG	0.42 U	0.38 U	1.3					
SVOCs	T	Acenaphthene	NL	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Acenaphthylene	2,500	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Anthracene	2,500	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Benzo(a)anthracene	7.8	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Benzo(a)pyrene	1	MG/KG	0.42 U	0.38 U	1 U		0.2 U	1 U	0.97 U	
SVOCs	T	Benzo(b)fluoranthene	7.8	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Benzo(ghi)perylene	NL	MG/KG	0.42 U	0.38 U	1.1					
SVOCs	T	Benzo(k)fluoranthene	78	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Bis(2-Ethylhexyl)phthalate	410	MG/KG	2.6	2.2	2.6					
SVOCs	T	Carbazole	NL	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Chrysene	NL	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Di-n-butylphthalate	2,500	MG/KG	0.63	2.8	2.3					
SVOCs	T	Di-n-octylphthalate	2,500	MG/KG	0.42 U	0.43	1 U					
SVOCs	T	Dibenz(a,h)anthracene	NL	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Dibenzofuran	NL	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Fluoranthene	2,500	MG/KG	0.42 U	0.38 U	1.1					
SVOCs	T	Fluorene	2,500	MG/KG	0.42 U	0.38 U	1 U					
SVOCs	T	Indeno(1,2,3-cd)pyrene	NL	MG/KG	0.42 U	0.38 U	1					
SVOCs	T	Methanol	2,500	MG/KG	17		74					
SVOCs	T	Phenanthrene	2,500	MG/KG	0.42 U	0.38 U	1					
SVOCs	T	Pyrene	2,500	MG/KG	0.52	0.38 U	1.4					
VOCs	T	2-Butanone	1,000	MG/KG	0.025	0.015 U	0.018 UJ					
VOCs	T	Acetone	1,000	MG/KG	0.066	0.029 U	0.037 UJ					
VOCs	T	Ethylbenzene	1,000	MG/KG	0.0071 U	0.013 J	0.0092 UJ					
VOCs	T	Formaldehyde	2,500	MG/KG	0.73		0.52					
VOCs	T	Isopropylbenzene	NL	MG/KG	0.0088	0.0073 UJ	0.0092 UJ					
VOCs	T	n-Butylbenzene	NL	MG/KG	0.0071 U	0.0073 UJ	0.0092 UJ					
VOCs	T	Naphthalene	2,500	MG/KG	0.6 U	0.38 U, UJ	1 U, UJ					
VOCs	T	Xylenes (m&p)	1,000	MG/KG	0.022	0.0073 UJ	0.0092 UJ					

Notes:

AOC = Area of Concern
SB = Soil boring
Depths are in feet below ground surface
Qc Code: FS = Field sample; FD = Field Duplicate
Qual. = qualifier
NA = Not applicable. NL = No criteria established; ND = not detected
Fraction:
S = SPLP (synthetic precipitation leaching procedure)
T = Total
MG/KG = milligrams per kilogram
MG/L = milligrams per liter
Only results from detected parameters shown.
U = below reporting limit; J = value estimated
VOCs = Volatile organic compounds
SVOCs = Semi-Volatile organic compounds
PCBs = polychlorinated biphenyls
Exceeds criteria

ADDENDUM 1 / TABLE 7
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS - AOC 120
 2011 - 2017

Chem Class	Fraction	Parameter	WQS	Units	AOC Name		120	120	120	120	120	120	120	120	120	120
					Location	Depth	SW-10	SW-12	SW-13	SW-16	SW-17	SW-28	SW-57	SW-58	SW-59	SW-60
					QC Code	Sample ID	8/17/2011	8/23/2011	8/22/2011	8/23/2011	8/23/2011	8/18/2011	1/18/2017	1/18/2017	1/18/2017	1/18/2017
Metals	D	Barium	NC	MG/L									0.21 J	0.2 J	0.039 J	0.04 J
Metals	D	Cadmium	0.005	MG/L									0.001 U	0.0044	0.001 U	0.001 U
Metals	D	Chromium	0.1	MG/L									0.001 U	0.001 U	0.001 U	0.001 U
Metals	D	Copper	1.3	MG/L									0.0026	0.001	0.003	0.0013
Metals	D	Lead	0.015	MG/L									0.001 U	0.001 U	0.001 U	0.001 U
Metals	D	Nickel	0.61	MG/L									0.0035	0.0061	0.003	0.0019
Metals	D	Vanadium	NC	MG/L									0.001 U	0.001 U	0.001 U	0.001 U
Metals	D	Zinc	7.4	MG/L									0.022	0.084	0.019	0.0096
Metals	T	Barium	NC	MG/L	0.13	0.033	0.044	0.021	0.041	0.14	0.14	0.21 J	0.22 J	0.039 J	0.062 J	
Metals	T	Cadmium	0.005	MG/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0015	0.0056	0.001 U	0.001 U	
Metals	T	Chromium*	0.1	MG/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	0.0016	
Metals	T	Copper	1.3	MG/L	0.005 U	0.005 U	0.0056	0.005 U	0.005 U	0.005 U	0.005 U	0.0027	0.0012	0.0028	0.0022	
Metals	T	Lead	0.015	MG/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	
Metals	T	Nickel	0.61	MG/L	0.004	0.0025 U	0.0044	0.0025 U	0.0025 U	0.0034	0.0034	0.0069	0.0026	0.0031		
Metals	T	Vanadium	NC	MG/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.001 UJ	0.001 UJ	0.001 UJ	0.0035 J	
Metals	T	Zinc	7.4	MG/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.022	0.099	0.017	0.015	
PCBs	T	Aroclor-1242	0.000000064	MG/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00024 U	0.00023 U	0.00025 U	0.00024 U	
SVOCs	T	Bis(2-Ethylhexyl)phthalate	0.0012	MG/L	0.0005 U	0.0015 J	0.0005 U	0.0005 U	0.0005 U	0.0003 J	0.0005 U	0.0005 U	0.05 U	0.045 U	0.05 U	0.046 U
VOCs	T	Acetone	NC	MG/L	0.002 U	0.0053	0.002 U	0.05 U	0.05 U	0.05 U	0.05 U					
VOCs	T	Methyl Tertbutyl Ether	NC	MG/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	
WC	T	Ammonia	NC	MG/L	0.1 U	0.14	0.22	0.1 U	0.24	0.1 U	0.24	7.4	0.28	0.02 U	0.02 U	
WC	T	Chloride	NC	MG/L	64	3.1	5.4	2.8	4.1	92						
WC	T	Total Dissolved Solids	NC	MG/L	240	63	70	48	69	290						
WC	T	Hardness	NC	MG/L	140	29	32	20	30	150	140	190	32	42		

ADDENDUM 1 / TABLE 7
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS - AOC 120
 2011 - 2017

Chem Class	Fraction	Parameter	WQS	Units	AOC Name		120	120	120	120	120	120	120	120	120	120	120		
					Location	Depth	SW-60	SW-61	SW-62	SW-63	SW-64	SW-65	SW-7	SW-7	SW-7DUP	SW-7	SW-71		
					Sample ID	QC Code	Sample Date	FD	FS	FS	FS	FS	FS	FD	FS	FS	FS	SW-72	
							1/18/2017		1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	8/17/2011		1/19/2017	1/19/2017	1/19/2017	
Metals	D	Barium	NC	MG/L	0.04	J													
Metals	D	Cadmium	0.005	MG/L	0.001	U													
Metals	D	Chromium	0.1	MG/L	0.001	U													
Metals	D	Copper	1.3	MG/L	0.0013														
Metals	D	Lead	0.015	MG/L	0.001	U													
Metals	D	Nickel	0.61	MG/L	0.002														
Metals	D	Vanadium	NC	MG/L	0.001	U													
Metals	D	Zinc	7.4	MG/L	0.011														
Metals	T	Barium	NC	MG/L	0.041	J													
Metals	T	Cadmium	0.005	MG/L	0.001	U													
Metals	T	Chromium*	0.1	MG/L	0.001	U													
Metals	T	Copper	1.3	MG/L	0.0013														
Metals	T	Lead	0.015	MG/L	0.001	U													
Metals	T	Nickel	0.61	MG/L	0.0021														
Metals	T	Vanadium	NC	MG/L	0.001	UJ													
Metals	T	Zinc	7.4	MG/L	0.022														
PCBs	T	Arocolor-1242	0.000000064	MG/L	0.00024	U	0.00034		0.00026	U	0.00026	U	0.00013	0.00087	0.00083	0.00081	0.0035	0.00029	U
SVOCs	T	Bis(2-Ethylhexyl)phthalate	0.0012	MG/L	0.045	U													
VOCs	T	Acetone	NC	MG/L	0.05	U													
VOCs	T	Methyl Tertbutyl Ether	NC	MG/L	0.001	U													
WC	T	Ammonia	NC	MG/L	0.02	U													
WC	T	Chloride	NC	MG/L															
WC	T	Total Dissolved Solids	NC	MG/L	40		170		170		190		210		170		170		190
WC	T	Hardness	NC	MG/L															

Prepared By: LJB 09/26/2017

Reviewed By: NMB 9/26/2017

ADDENDUM 1 / TABLE 7
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS - AOC 120
 2011 - 2017

Chem Class	Fraction	Parameter	WQS	Units	AOC Name	120
					Location	SW-8
Metals	D	Barium	NC	MG/L	Depth	-
Metals	D	Cadmium	0.005	MG/L	Sample ID	SW-08
Metals	D	Chromium	0.1	MG/L	QC Code	FS
Metals	D	Copper	1.3	MG/L	Sample Date	8/18/2011
Metals	D	Lead	0.015	MG/L	Result	
Metals	D	Nickel	0.61	MG/L	Qual.	
Metals	D	Vanadium	NC	MG/L	Notes:	
Metals	D	Zinc	7.4	MG/L	AOC = Area of Concern	
Metals	T	Barium	NC	MG/L	SW = Surface water sample location	
Metals	T	Cadmium	0.005	MG/L	Depths are in feet below water surface	
Metals	T	Chromium*	0.1	MG/L	Qc Code: FS = Field sample; FD = Field Duplicate	
Metals	T	Copper	1.3	MG/L	Qual. = qualifier	
Metals	T	Lead	0.015	MG/L	WQS = Connecticut Water Quality Standard for the Consumption of Water and Fish.	
Metals	T	Nickel	0.61	MG/L	* = Hexavalent chromium criterion used as surrogate for total chromium.	
Metals	T	Vanadium	NC	MG/L	NC = No Criteria	
Metals	T	Zinc	7.4	MG/L	Fraction:	
PCBs	T	Aroclor-1242	0.000000064	MG/L	D = Dissolved	
SVOCs	T	Bis(2-Ethylhexyl)phthalate	0.0012	MG/L	T = Total	
VOCs	T	Acetone	NC	MG/L	MG/L = milligrams per liter	
VOCs	T	Methyl Tertbutyl Ether	NC	MG/L	Only results from detected parameters shown.	
WC	T	Ammonia	NC	MG/L	U = below reporting limit; J = value estimated	
WC	T	Chloride	NC	MG/L	VOCs = Volatile organic compounds	
WC	T	Total Dissolved Solids	NC	MG/L	SVOCs = Semi-Volatile organic compounds	
WC	T	Hardness	NC	MG/L	PCBs = polychlorinated biphenyls	
					WC = wet chemistry	
					Exceeds criteria	

ADDENDUM 1 / TABLE 8
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS - AOC 230
2011 - 2016

Chem Class	Fraction	Parameter	WQS	Units	AOC Name		230	230	230	230	230	230	230	230	230	230	230	230	230	230		
					Location	Depth	SW-18	SW-19	SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SW-31	
					Sample ID	QC Code	Sample Date	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	
Metals	D	Barium	NC	MG/L																		
Metals	D	Cadmium	0.005	MG/L																		
Metals	D	Chromium	0.1	MG/L																		
Metals	D	Copper	1.3	MG/L																		
Metals	D	Lead	0.015	MG/L																		
Metals	D	Nickel	0.61	MG/L																		
Metals	D	Vanadium	NC	MG/L																		
Metals	D	Zinc	7.4	MG/L																		
Metals	T	Barium	NC	MG/L	0.082		0.11	0.11	0.11	0.082	0.093	0.084	0.086	0.076	0.076	0.076	0.15	0.099				
Metals	T	Cadmium	0.005	MG/L	0.0025 U	0.0037	0.0031	0.0031	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.017		0.0028				
Metals	T	Chromium	0.1	MG/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Metals	T	Copper	1.3	MG/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Metals	T	Lead	0.015	MG/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	
Metals	T	Nickel	0.61	MG/L	0.0025 U	0.0068	0.0068	0.0058	0.0058	0.0032	0.0028	0.0028	0.0027	0.0026	0.0025 U	0.0025 U	0.0025 U	0.026	0.005			
Metals	T	Vanadium	NC	MG/L	0.0025 U	0.0044	0.0045	0.0033	0.0025	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0028	
Metals	T	Zinc	7.4	MG/L	0.025 U	0.034	0.034	0.028	0.028	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.16	0.025 U			
PCBs	T	Aroclor-1242	0.000000064	MG/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	
SVOCs	T	Bis(2-Ethylhexyl)phthalate	0.0012	MG/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00082 J	0.00054 J	0.0005 U	0.0005 U	0.0005 U	0.00052 J	0.0005 U	0.0005 U	0.00051 J	0.0005 U	0.0002 U		
VOCs	T	Acetone	NC	MG/L	0.002 UJ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.002 UJ	0.002 UJ	0.002 U	0.002 U		
VOCs	T	Methyl Tertbutyl Ether	NC	MG/L	0.00057	0.0005 J	0.0005 UJ	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00064	0.0005 U			
WC	T	Ammonia	NC	MG/L	0.66	7.1	6.7	16	3.4	12	9.6	9.8	0.42	0.41	7.1	16						
WC	T	Chloride	NC	MG/L	63	54	51	46	43	53	52	51	64	57	54	42						
WC	T	Total Dissolved Solids	NC	MG/L	180	210	210	200	150	210	200	190	170	180	220	190						
WC	T	Hardness	NC	MG/L	94	100	100	98	71	96	96	97	98	97	120	93						

ADDENDUM 1 / TABLE 8
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS - AOC 230
 2011 - 2016

Chem Class	Fraction	Parameter	WQS	Units	Sample Date		230		230		230		230		230		230		230			
					8/25/2011	Result	Qual.	8/25/2011	Result	Qual.	8/24/2011	Result	Qual.	8/8/2016	Result	Qual.	8/8/2016	Result	Qual.	8/9/2016	Result	Qual.
Metals	D	Barium	NC	MG/L											0.28	0.35	0.3	0.25				
Metals	D	Cadmium	0.005	MG/L											0.0012	0.011	0.001 U	0.001 U	0.001 U			0.001 U
Metals	D	Chromium	0.1	MG/L											0.001 U	0.001 U	0.001 U	0.001 U	0.001 U			
Metals	D	Copper	1.3	MG/L											0.0021	0.0017	0.0018	0.0017				
Metals	D	Lead	0.015	MG/L											0.001 U	0.001 U	0.001 U	0.001 U				
Metals	D	Nickel	0.61	MG/L											0.0046	0.035	0.0028	0.0026				
Metals	D	Vanadium	NC	MG/L											0.001 U	0.001 U	0.001 U	0.001 U				
Metals	D	Zinc	7.4	MG/L											0.014	0.12	0.005 U	0.005 U				
Metals	T	Barium	NC	MG/L	0.095	0.091	0.084		0.3		0.37		0.33		0.39							
Metals	T	Cadmium	0.005	MG/L	0.0025 U	0.0025 U	0.0025 U		0.0016		0.013		0.001 U		0.001 U							
Metals	T	Chromium	0.1	MG/L	0.005 U	0.005 U	0.005 U		0.0025		0.001 U		0.001 U		0.001 U							
Metals	T	Copper	1.3	MG/L	0.005 U	0.005 U	0.005 U		0.0063		0.0024		0.0028		0.0031							
Metals	T	Lead	0.015	MG/L	0.0025 U	0.0025 U	0.0025 U		0.0018		0.001 U		0.001 U		0.0015							
Metals	T	Nickel	0.61	MG/L	0.0029	0.0026	0.0027		0.0057		0.037		0.0035		0.0041							
Metals	T	Vanadium	NC	MG/L	0.0025 U	0.0025 U	0.0025 U		0.0017		0.001 U		0.001 U		0.001 U							
Metals	T	Zinc	7.4	MG/L	0.025 U	0.025 U	0.025 U		0.024		0.13		0.013		0.016							
PCBs	T	Aroclor-1242	0.000000064	MG/L	0.0005 U	0.0005 U	0.0005 U		0.00025 U		0.00023 U		0.00025 U		0.00027 U							
SVOCs	T	Bis(2-Ethylhexyl)phthalate	0.0012	MG/L	0.0005 U	0.00087 J	0.0005 U		0.005 U		0.005 U		0.0049 U		0.005 U							
VOCs	T	Acetone	NC	MG/L	0.002 U	0.002 U	0.002 U		0.002 U		0.05 U		0.05 U		0.05 U							
VOCs	T	Methyl Terbutyl Ether	NC	MG/L	0.0005 U	0.0005 U	0.0005 U		0.001 U		0.001 U		0.001 U		0.001 U							
WC	T	Ammonia	NC	MG/L	11	11	9.2		6.5		1.2		0.02		0.02 U		0.02 U		0.02 U			
WC	T	Chloride	NC	MG/L	51	54	52															
WC	T	Total Dissolved Solids	NC	MG/L	210	210	200															
WC	T	Hardness	NC	MG/L	97	97	95		210		200		220		220		220		220			

Notes:

AOC = Area of Concern
 SW = Surface water sample location
 Depths are in feet below water surface
 QC Code: FS = Field sample; FD = Field Duplicate
 Qual. = qualifier
 WQS = Connecticut Water Quality Standard for the Consumption of Water and Fish.
 * = Hexavalent chromium criterion used as surrogate for total chromium.

NC = No Criteria

Fraction:

D = Dissolved

T = Total

MG/L = milligrams per liter

Only results from detected parameters shown.

U = below reporting limit; J = value estimated

VOCs = Volatile organic compounds

SVOCs = Semi-Volatile organic compounds

PCBs = polychlorinated biphenyls

WC = wet chemistry

Exceeds criteria